

CATALOGUE No.

57-502

OCCASIONAL

UNIVERSITY OF TORONTO

DEPT. OF POLITICAL ECONOMY

Government

Publications



CANADA


NON-PERIOD REPT FILE 191

✓
INVENTORY OF PRIME MOVER
AND
ELECTRIC GENERATING EQUIPMENT
AS AT DECEMBER 31, 1961

DOMINION BUREAU OF STATISTICS

Public Finance and Transportation Division

Public Utilities Section



Digitized by the Internet Archive
in 2024 with funding from
University of Toronto

<https://archive.org/details/39140417030128>

DOMINION BUREAU OF STATISTICS
Public Finance and Transportation Division
Public Utilities Section

INVENTORY OF PRIME MOVER
AND
ELECTRIC GENERATING EQUIPMENT
AS AT DECEMBER 31, 1961

Published by Authority of
The Minister of Trade and Commerce

August 1963
8506-513

Price \$1.50

Reports Published by the
Public Finance and Transportation Division
dealing with

ELECTRIC POWER

Catalogue number	Title	Price
	Annual	
57-201	Electric and Gas Meter Registrations. Approx. 250 pp. Meter registrations by province, county or census division, company and place served, by type of service	\$2.50
57-202	Electric Power Statistics. Approx. 48 pp. Summary and detailed analyses of generation and use of electric power in Canada, power plant equipment, customers, employees, salaries and wages and financial statistics .....	.75
57-203	Electricity Bills for Domestic, Commercial and Small Power Service. Approx. 15 pp. Includes an annual index of electricity bills for domestic service, and bills for light and power in cities and representative municipalities .....	.50
57-204	Electric Power Survey of Capability and Load. Approx. 45 pp. Current and projected data of capability and load of major producers of electric energy in Canada .....	.75
	Monthly	
57-001	Electric Power Statistics. Approx. 4 pp. Production by utilities and industrial establishments, imports and exports, power made available for use in Canada, amount used in electric boilers, by provinces	per copy, 10¢; per year 1.00
	Occasional	
57-502	Inventory of Prime Mover and Electric Generating Equipment. Approx. 120 pp. A list of generating plants in Canada by ownership, showing the location, year of installation, name-plate rating and other details of each unit, as at December 31, 1961	1.50

Remittances should be in the form of cheque or money order, made payable to the Receiver General of Canada and forwarded to the Publications Distribution Unit, Financial Control Section, Dominion Bureau of Statistics, or to the Queen's Printer, Ottawa, Canada.

TABLE OF CONTENTS

	Page
Introduction	7
Codes	5
Summary of Installed Prime Mover and Generating Capacity, as at December 31, 1961	10
Section 1. Hydro-Electric Equipment as at December 31, 1961	12
Section 2. Steam Equipment as at December 31, 1961	62
Section 3. Internal Combustion Equipment as at December 31, 1961	86
Section 4. Gas Turbine Equipment as at December 31, 1961	110

SYMBOLS

The interpretation of the symbols and abbreviations used in the tables throughout this publication is as follows:

.. figures not available.

... figures not appropriate or not applicable.

— nil or zero

* figures not reported, but estimated at the Dominion Bureau of Statistics.

DC in frequency column, indicates Direct Current equipment.

R following date of manufacture indicates unit of equipment rebuilt at that date.

S in Kw column indicates standby unit only.

Codes Used in Certain Sections of the Report

Hydro-electric Equipment

Water supply and outlet

B.	Bay
Brk.	Brook
C.	Canal
Crk.	Creek
Hbr.	Harbour
L.	Lake, Lac
R	River, Rivière
SW	Sea Water

Distance from nearest town

N.	North
S.	South
E.	East
W.	West

Type of runner

I.	Impulse
I. Pelton	Impulse Pelton
IR	Impulse reaction
R.	Reaction
R. Francis	Reaction Francis
R. Prop.	Reaction Propeller
R. Prop. F.	Reaction Fixed Propeller
R. Prop. K.	Reaction Adjustable Propeller i.e. Kaplan

Steam Equipment

Fuel used and method of firing

BG	Blast furnace gas	
BL	Black liquor	
C	Coal	(CON) Conveyor
CG	Coke oven gas	(CYC) Cyclone
GrR	Grain refuse	(D) Dutch oven
NG	Natural gas	(H) Hand
O	Oil	(P) Pulverised fuel
SO ₂	Sulphur dioxide	(S) Stoker
WH	Waste heat	
WR	Wood refuse	

Type of steam prime mover

BP	Back pressure
Cond.	Condensing
DE	Double extraction
E	Extraction
PO	Pass out

Coolant

Air	Air
Hyd.	Hydrogen

Internal Combustion and Gas Turbine Equipment

Type of fuel used

BG	Blast furnace gas
CO	Crude oil
D	Dual
DO	Diesel oil
FG	Flare gas
LPG	Liquefied petroleum gases
NG	Natural gas
O	Oil
RO	Residual oil

INTRODUCTION

This Inventory of Prime Mover and Electric Generating Equipment is the result of a second survey conducted by the Dominion Bureau of Statistics with the co-operation of the Canadian Electrical Association and various federal government departments. In this report we have endeavoured to provide a detailed listing of prime mover and generating equipment installed as at December 31, 1961, regardless of the size of the plant or unit. In addition to providing a total plant h.p. of hydro turbines and total plant kw. of generators as in the former report, we are listing the total plant kw. of prime movers and gas turbines and the total plant kva. of the generators.

The report is divided into four sections:

Section 1. Hydro-electric Equipment.

Section 2. Steam Equipment.

Section 3. Internal Combustion Engine Equipment.

Section 4. Gas Turbine Equipment

Questionnaires were mailed to all known producers of electric power requesting information by plant on turbines, boilers, engines and generators which were installed and available for the production of electric power at December 31, 1961, exclusive of auxiliary equipment installed only for generating station service.

Between the two world wars, three editions of a Directory of Central Electric Stations were produced by the Dominion Water Power and Reclamation Service of the Department of the Interior in collaboration with the Dominion Bureau of Statistics. In

this directory, both the equipment and the service provided by electric utilities and companies which sold part of their generation were described in considerable detail but no information was provided on industrial plants which produced electric energy solely for own use. Also, no information was obtained from plants located in what is now the Province of Newfoundland. The last of these directories was published in 1928, although a supplement was issued in 1936.

In 1937, the Dominion Bureau of Statistics produced a mimeographed list of "Power Plants of Large Central Electric Stations". This list grouped hydro and thermal plants by province and company showing their total horse-power capacity and precise geographic location.

In November, 1960, the first of this present series, "Inventory of Prime Mover and Electric Generating Equipment, as at December 31, 1958", was published. It is intended that another report will be published at the end of 1966 and at five-year intervals thereafter. In intervening years it is planned to supplement survey data in the annual Electric Power Statistics. Hence, revised provincial and Canada totals by type of generation will be made available annually in the "Electric Power Statistics" report. Catalogue No. 57-202.

Plants operated by each utility or company are listed alphabetically and the units of prime mover and generating equipment are listed in chronological sequence. Cross references on company names indicate those companies which hold other types of equipment.

November 21, 1962.

REVIEW OF SURVEY RESULTS

Total installed generating capacity in Canada increased 4.6% to 24.1 million kw. in 1961 from 23 million kw. in 1960 and has grown 29.1% since 1958. Of this total capacity, 37.9% is installed in Quebec, 32.2% in Ontario and 12.5% in British Columbia. By far the most common type of facility is hydro-electric which accounted for 78.9% of the total generating capacity in 1961.

Publicly operated utilities account for 56.3% of all installed generating capacity followed by privately operated companies which have 24.6% and industrial companies (those which generate electricity primarily for their own industrial operations), 19.1%. The prime mover equipment installed to operate the generators amounted to 32.8 million h.p. (24.8 million kw.), 3% greater than the output capacity of generators.

Name plate kva. capacity for all plants amounted to 27.9 million kva. for the resulting average design power factor of 86.5%.

The largest hydro electric plant in Canada is one operated by the Quebec Hydro Electric Commission at Beauharnois, which has a 1.6 million kw. capacity. The largest thermal plant is the Richard L. Hearn operated by the Hydro-Electric Power Commission of Ontario which has a capacity of 1.2 million kw. The largest individual units in Canada are the 200,000 kw. generators in the Richard L. Hearn steam plant, while the largest hydro electric units are the 148,500 units in the Chute des Passes Plant operated by Aluminum Company of Canada Limited in Quebec. The largest gas turbine units of 30,000 kw. are operated by the City of Edmonton and the largest internal combustion units are 3,000 kw. units. The oldest equipment remaining in operation are units that were installed by the Quebec Power Company in 1894 at their Montmorency Plant.

Summary of Prime Mover and Electric Generating Capacity, as at December 31, 1961

No.		Total				Publicly operated			
		Prime movers		Generator		Prime mover		Generator	
		h.p.	kw.	kva.	kw.	h.p.	kw.	kva.	kw.
1	Canada totals	32,768,399	24,839,819	27,882,084	24,091,368	18,073,876	13,740,213	15,502,304	13,565,063
2	Newfoundland	453,161	337,922	370,943	322,237	10,610	7,912	9,431	7,890
3	Prince Edward Island	50,150	37,397	42,489	37,396	6,224	4,641	5,789	4,641
4	Nova Scotia	723,260	539,335	630,175	520,248	225,583	168,218	200,850	165,738
5	New Brunswick	616,106	459,431	516,903	441,700	443,751	330,906	367,835	313,091
6	Quebec	12,629,841	9,461,031	10,684,320	9,138,934	4,671,947	3,526,830	4,075,875	3,545,730
7	Ontario	10,635,274	7,930,724	8,710,084	7,760,761	9,521,325	7,100,052	7,764,166	6,947,267
8	Manitoba	1,470,152	1,096,292	1,255,593	1,087,959	1,436,459	1,071,167	1,225,763	1,063,022
9	Saskatchewan	981,623	777,496	952,273	785,287	809,885	649,431	801,109	646,435
10	Alberta	1,128,879	950,705	1,110,721	931,529	333,353	329,981	411,494	330,781
11	British Columbia	3,993,989	3,185,383	3,532,529	3,000,011	562,106	511,827	593,514	499,627
12	Yukon	42,959	32,034	38,239	32,250	21,805	16,260	20,105	16,940
13	Northwest Territories	43,005	32,069	37,815	33,056	30,828	22,988	26,373	23,901
14	Hydro-Electric totals	26,409,605	19,693,642*	21,831,837	19,018,807	13,560,537	10,112,092*	11,202,667	9,976,758
15	Newfoundland	366,949	273,634	293,468	259,210	—	—	—	—
16	Prince Edward Island	209	156	194	155	—	—	—	—
17	Nova Scotia	194,740	145,217	174,224	142,930	134,235	100,099	115,885	97,768
18	New Brunswick	245,840	183,323	215,575	188,695	213,340	159,088	187,975	165,535
19	Quebec	12,451,749	9,285,268	10,494,008	8,968,029	4,622,949	3,447,332	3,994,332	3,473,190
20	Ontario	7,854,900	5,879,770	6,299,921	5,716,090	7,118,845	5,308,523	5,659,751	5,156,006
21	Manitoba	1,112,000	754,648	850,500	746,750	998,000	744,208	839,000	736,400
22	Saskatchewan	12,100	105,964	126,400	119,040	—	—	—	—
23	Alberta	412,450	307,564	338,890	290,790	—	—	—	—
24	British Columbia	3,638,278	2,713,065	2,987,305	2,541,718	434,618	324,095	372,324	317,519
25	Yukon	38,140	28,441	33,152	28,040	21,000	15,660	19,400	16,340
26	Northwest Territories	22,250	16,592	18,200	17,360	17,550	13,087	14,000	14,000
27	Steam, totals	5,848,113*	4,360,938	5,134,010	4,310,475	4,185,902*	3,121,427	3,700,153	3,096,175
28	Newfoundland	61,687	46,000	55,550	45,000	—	—	—	—
29	Prince Edward Island	43,583	32,500	36,386	32,500	—	—	—	—
30	Nova Scotia	514,114	383,375	443,085	367,028	80,461	60,000	75,000	60,000
31	New Brunswick	358,444	267,292	290,102	244,199	219,930	164,002	169,884	139,750
32	Quebec	95,320	71,080	77,121	72,728	—	—	—	—
33	Ontario	2,693,474	2,008,524	2,357,874	2,002,720	2,365,562	1,764,000	2,070,118	1,764,000
34	Manitoba	431,273	321,600	380,562	321,600	421,081	314,000	371,062	314,000
35	Saskatchewan	780,408	581,950	717,426	579,450	767,668	572,450	707,426	571,450
36	Alberta	672,847	501,742	599,908	499,550	330,395	246,375	305,958	246,375
37	British Columbia	196,158	146,275	175,291	145,100	—	—	—	—
38	Yukon	805	600	705	600	805	600	705	600
39	Northwest Territories	—	—	—	—	—	—	—	—
40	Internal combustion, totals	510,681*	380,815	468,362	378,509	327,437*	244,170	304,134	243,490
41	Newfoundland	24,525	18,288	21,925	18,027	10,610	7,912	9,431	7,890
42	Prince Edward Island	6,358	4,741	5,909	4,741	6,224	4,641	5,789	4,641
43	Nova Scotia	14,406	10,743	12,866	10,290	10,887	8,119	9,965	7,970
44	New Brunswick	11,822	8,816	11,226	8,806	10,481	7,816	9,976	7,806
45	Quebec	82,772	61,723	77,191	62,177	48,998	36,538	45,543	36,540
46	Ontario	56,900	42,430	52,289	41,951	36,918	27,529	34,297	27,261
47	Manitoba	26,879	20,044	24,531	19,609	17,378	12,959	15,701	12,622
48	Saskatchewan	59,115	44,082	54,247	43,397	42,217	31,481	39,483	31,585
49	Alberta	43,582	32,499	36,648	32,052	2,958	2,206	2,786	2,206
50	British Columbia	159,553	118,979	147,533	118,153	127,488	95,068	118,790	95,068
51	Yukon	4,014	2,993	4,382	3,610	—	—	—	—
52	Northwest Territories	20,755	15,477	19,615	15,696	13,278	9,901	12,373	9,901
53	Gas turbines, totals	—	404,424 ¹	447,875	383,577	—	262,524 ¹	295,350	248,640
54	Newfoundland	—	—	—	—	—	—	—	—
55	Prince Edward Island	—	—	—	—	—	—	—	—
56	Nova Scotia	—	—	—	—	—	—	—	—
57	New Brunswick	—	—	—	—	—	—	—	—
58	Quebec	—	42,960 ¹	36,000	36,000	—	42,960 ¹	36,000	36,000
59	Ontario	—	—	—	—	—	—	—	—
60	Manitoba	—	—	—	—	—	—	—	—
61	Saskatchewan	—	45,500 ¹	54,200	43,400	—	45,500 ¹	54,200	43,400
62	Alberta	—	108,900 ¹	135,275	109,137	—	81,400 ¹	102,750	82,200
63	British Columbia	—	207,064 ¹	222,400	195,040	—	92,664 ¹	102,400	87,040
64	Yukon	—	—	—	—	—	—	—	—
65	Northwest Territories	—	—	—	—	—	—	—	—

¹ Main turbine capacity (kw.) at ambient 0°F.

Summary of Prime Mover and Electric Generating Capacity, as at December 31, 1961

Privately operated				Industries				No.
Prime mover		Generator		Prime mover		Generator		
h.p.	kw.	kva.	kw.	h.p.	kw.	kva.	kw.	
7,998,708	6,097,537	6,934,791	5,927,079	6,695,815	5,002,069	5,444,989	4,599,226	1
326,893	243,764	265,683	235,017	115,658	86,246	95,829	79,330	2
43,926	32,756	36,700	32,755	—	—	—	—	3
433,857	323,527	372,340	307,982	63,820	47,590	56,985	46,528	4
15,341	11,440	13,800	11,040	157,014	117,085	135,268	117,569	5
4,397,620	3,279,305	3,811,779	3,190,466	3,560,274	2,654,896	2,796,666	2,402,738	6
488,740	334,625	358,669	321,499	665,209	496,047	587,249	491,995	7
—	—	—	—	33,693	25,125	29,830	24,937	8
126,371	94,235	112,412	107,390	45,367	33,830	38,752	31,462	9
710,689	548,461	616,736	531,401	84,837	72,263	82,491	69,347	10
1,488,829	1,224,620	1,339,935	1,184,034	1,943,054	1,448,936	1,599,080	1,316,350	11
4,746	3,539	5,156	4,230	16,408	12,235	12,978	11,080	12
1,696	1,265	1,581	1,265	10,481	7,816	9,861	7,890	13
7,177,326	5,352,132*	6,088,156	5,203,396	5,611,742	4,229,418*	4,541,014	3,838,653	14
272,010	202,838	215,493	194,330	94,939	70,796	77,975	64,880	15
209	156	194	155	—	—	—	—	16
53,805	40,122	51,651	39,812	6,700	4,996	6,688	5,350	17
14,000	10,440	12,550	10,040	18,500	13,795	15,050	13,120	18
4,380,823	3,266,780	3,795,534	3,177,229	3,447,977	2,571,156	2,704,142	2,317,610	19
441,264	329,050	351,763	315,924	324,791	242,197	288,407	244,160	20
—	—	—	—	14,000	10,440	11,500	10,350	21
125,500	93,585	111,600	106,740	16,600	12,379	14,800	12,300	22
412,450	307,564	338,890	290,790	—	—	—	—	23
1,475,125	1,100,001	1,208,419	1,066,726	1,728,535	1,288,969	1,406,562	1,157,473	24
2,140	1,596	2,062	1,650	15,000	11,185	11,690	10,050	25
—	—	—	—	8,700	3,505	4,200	3,360	26
733,203*	546,750	622,127	531,750	929,008*	692,761	811,730	682,550	27
46,936	35,000	43,050	35,000	14,751	11,000	12,500	10,000	28
43,583	32,500	36,386	32,500	—	—	—	—	29
377,162	281,250	318,289	266,250	56,491	42,125	49,796	40,778	30
—	—	—	—	138,514	103,290	120,218	104,449	31
—	—	—	—	95,320	71,080	77,121	72,728	32
—	—	—	—	327,912	244,524	287,756	238,720	33
—	—	—	—	10,192	7,600	9,500	7,600	34
—	—	—	—	12,740	9,500	10,000	8,000	35
265,522	198,000	224,402	198,000	76,930	57,367	69,548	55,175	36
—	—	—	—	196,158	146,275	175,291	145,100	37
—	—	—	—	—	—	—	—	38
—	—	—	—	—	—	—	—	39
88,179*	65,753	81,358	65,433	95,065*	70,890	82,870	69,586	40
7,947	5,926	7,140	5,687	5,968	4,450	5,354	4,450	41
134	100	120	100	—	—	—	—	42
2,890	2,155	2,400	1,920	629	469	501	400	43
1,341	1,000	1,250	1,000	—	—	—	—	44
16,797	12,525	16,245	13,237	16,977	12,660	15,403	12,400	45
7,476	5,575	6,906	5,575	12,506	9,326	11,086	9,115	46
—	—	—	—	9,501	7,085	8,830	6,987	47
871	650	812	650	16,027	11,951	13,952	11,162	48
32,717	24,397	30,294	24,111	7,907	5,896	3,568	5,735	49
13,704	10,219	11,516	9,308	18,361	13,692	17,227	13,777	50
2,606	1,943	3,094	2,580	1,408	1,050	1,288	1,030	51
1,696	1,265	1,581	1,265	5,781	4,311	5,661	4,530	52
—	132,900 ¹	143,150	126,500	—	9,000 ¹	9,375	8,437	53
—	—	—	—	—	—	—	—	54
—	—	—	—	—	—	—	—	55
—	—	—	—	—	—	—	—	56
—	—	—	—	—	—	—	—	57
—	—	—	—	—	—	—	—	58
—	—	—	—	—	—	—	—	59
—	—	—	—	—	—	—	—	60
—	—	—	—	—	—	—	—	61
—	18,500 ¹	23,150	18,500	—	9,000 ¹	9,375	8,437	62
—	114,400 ¹	120,000	108,000	—	—	—	—	63
—	—	—	—	—	—	—	—	64
—	—	—	—	—	—	—	—	65

SECTION I. Hydro Electric Equipment as at December 31, 1961

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Newfoundland								
1	American Smelting and Refining Co: Buchans	Sandy L.	Buchans R.	1 E. Buchans	167	163	166	..	1927
2	Anglo Newfoundland Development Com- pany Limited: ¹								
3	Bishop's Falls	Exploits R.	...	Bishop's Falls	36	33	34	6,000	1952
4									..
5									..
6									..
7									..
8									1933
9									1928
10									1909
11	Grand Falls	Exploits R.	...	Grand Falls	109	105	108	..	1909
12									..
13									..
14									1955 R
15	The Bowater Power Co. Ltd.:								
16	Corner Brook	Corner Brk.	...	1 Corner Brook	..	..	526	190	1958
17	Deer Lake	Humber C.	Deer L.	Deer Lake	..	..	256	5,000	1925
18									..
19									..
20									..
21									..
22									..
23									..
24									1930
25									..
26	Iron Ore Company of Canada: ²								
27	Menihek	Menihek L.	Ashuanipi R.	30 S. Schefferville	36	28	35	5,094	1954
28									..
29	Maritimes Mining Corporation Ltd.:								
30	Snook's Arm	Sisters System	Green B.	Snook's Arm	273	270	272	21	1957
31	Venam's Bight	Burnt Ile System	" "	1 Round Harbour	268	252	264	14	1957
32	Newfoundland Light & Power Co. ^{1,2}								
33	Cape Broyle	Horse Chops R.	...	1 E. Cape Broyle	191	183	186	325	1952
34	Horse Chops	Horse Chops R.	...	3 N. Cape Broyle	294	287	291	272	1953
35	Mobile	Mobile R.	...	Mobile	397	389	393	178	1951
36	Petty Harbour	Petty Harbour	...	Petty Harbour	..	..	190	173	1908
37									1911
38	Pierre's Brook	Pierre's Brk.	...	1 N.E. Witless Bay	284	278	281	166	1931
39	Rattling Brook	Rattling Brk.	...	1 W. Norris Arm	330	315	328	..	1958
40									..
41	Rocky Pond .....	..	...	3 W. Tor's Cove	120	109	116	210	1943
42	Tor's Cove	Tor's Cove P.	...	Tor's Cove	188	179	184	258	1942
43									..
44	Union Electric Light & Power Co. ²								
45	Clarenville	Clarenville R.	...	¼ Clarenville	..	..	60	..	1933
46									1946
47	Lockston	Lockston R.	...	¼ Lockston	280	260	270	..	1956
48									1961
49	Port Union	Port Union R.	...	¼ Port Union	74	66	70	..	1917
									1920

¹ See Steam Equipment Section.

SECTION I. Hydro Electric Equipment as at December 31, 1961

Main turbines					Main generators								No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
..	600	163	2,359	2,359	1927	..	6,900	50	80	2,200	1,760	1,760	1
L. Francis	231	35	2,700		1952	240	6,900	50	90	2,250	2,000		2
..	..	..	2,700		..	..	..	..	..	2,250	2,000		3
..	..	..	2,700		..	..	..	..	..	2,250	2,000		4
..	..	..	2,700		..	..	..	..	..	2,250	2,000		5
..	..	..	2,700		..	..	..	..	..	2,250	2,000		6
..	..	..	2,700		..	..	..	..	..	2,250	2,000		7
..	214	..	1,700		1928	180	575	..	80	2,250	2,000		8
..	..	..	1,700	22,300	1916	..	..	..	..	1,875	1,500		9
L. Francis	375	109	2,500		1909	250	575	50	80	1,875	1,500	17,000	10
..	..	..	2,500		..	..	..	..	..	1,875	1,500		11
..	..	..	2,500		..	..	..	..	..	1,875	1,500		12
..	120	..	36,000	43,500	1938	17,000	6,900	..	..	1,875	1,500		13
..	..	..	..	..	..	..	..	..	..	27,500	22,000	26,500	14
L. Francis	1,000	559	6,000		1958	210	4,160	50	90	5,100	4,600		15
..	..	..	6,000	12,000	..	..	..	..	..	5,100	4,600	9,200	16
L. Francis	375	247	14,000		1925	..	6,000	50	95	10,250	9,750		17
..	..	..	14,000		..	..	..	..	..	10,250	9,750		18
..	..	..	14,000		..	..	..	..	..	10,250	9,750		19
..	..	..	14,000		..	..	..	..	..	10,250	9,750		20
..	..	..	14,000		..	..	..	..	..	10,250	9,750		21
..	..	..	14,000		..	..	..	..	..	10,250	9,750		22
..	..	..	14,000		..	..	..	..	..	10,250	9,750		23
..	214	..	29,000		1930	5,500	..	..	..	21,000	20,000		24
..	..	..	29,000	156,000	..	5,500	..	..	..	21,000	20,000	108,250	25
L. Prop. F.	150	34	6,000		1954	1,650	6,900	60	85	5,000	4,250		26
..	..	..	6,000		..	..	..	..	..	5,000	4,250		27
L. Prop. K.	..	40	13,500	25,500	1960	5,350	..	..	..	12,000	10,200	18,700	28
Pelton	1,200	243	800	800	1957	..	6,900	60	80	700	560	560	29
..	1,200	230	480	480	1957	..	6,900	60	80	450	360	360	30
L. Francis	360	176	7,600	7,600	1952	400	6,900	60	85	7,000	6,000	6,000	31
Francis	450	276	10,000	10,000	1953	400	6,900	60	85	9,000	7,650	7,650	32
Francis	514	370	13,000	13,000	1951	600	6,900	60	85	11,000	9,350	9,350	33
Francis	327	190	2,100		..	..	2,300	60	80	2,000	1,600		34
..	..	190	2,100		1922	..	..	..	..	2,000	1,600		35
..	514	190	2,750	6,950	1926	..	..	..	..	2,250	1,800	5,000	36
Francis	514	263	4,500	4,500	1931	..	6,900	60	80	4,000	3,200	3,200	37
Francis	514	307	8,500		1958	285	6,900	60	90	7,500	6,750		38
..	..	..	8,500	17,000	..	..	..	..	..	7,500	6,750	13,500	39
Francis	327	107	4,200	4,200	1943	..	6,900	60	85	3,750	3,200	3,200	40
Francis	514	173	2,850		1942	..	6,900	60	85	2,350	2,000		41
..	..	..	2,850		..	..	..	..	..	2,350	2,000		42
..	..	..	3,550	9,250	1951	145	..	..	90	2,780	2,500	6,500	43
..	720	60	60		1933	..	2,300	60	80	63*	50		44
..	..	..	60	120	1946	..	..	..	..	75*	60	110	45
..	720	270	2,000		1956	..	7,200	60	80	1,850	1,480		46
..	..	..	2,000	4,000	1961	..	..	..	..	1,850	1,480	2,960	47
Francis	600	70	450		1917	..	2,300	60	80	350	280		48
..	..	..	450	900	1920	..	..	..	..	350	280	560	49

* See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Newfoundland—Concluded			(miles)					
	United Towns Electric Co.: ²								
1	Fall Pond	Overfall Brk.	...	Little St. Lawrence	52	48	50	3	1939
2	Heart's Content	Southern Cove Brk.	Heart's Content Brk.	Heart's Content	155	147	150	10	1960
3	Lawn	Lawn R.	...	Lawn	87	73	77	4	1930
4									1931
5	New Chelsea.....	New Chelsea Brk.	...	¼ New Chelsea	275	270	275	9	1957
6	Pitman's Pond	New Chelsea Brk.	N. Bay Brk.	2 N.E. New Chelsea	70	50	67	..	1959
7	Seal Cove	Seal Cove Brk.	Soldiers P.	1 Seal Cove	192	188	190	10	1922
8									1927
9	Topsail	Topsail Brk.	Manuek R.	Topsail	365	363	364	4	1932
10	Victoria	Victoria Brk.	...	Victoria	215	213	214	3	1914
11	West Brook	West Brk.	...	2 St. Lawrence	140	135	140	3	1942
	West Coast Power Co. Ltd.: ²								
12	Lookout Brook	Lookout Brk.	Cross P.	12 St. Georges	578	575	576	6	1945
13									1958
14									
15	Total name plate rating in province of Nfld. ....	...	...	...	...	...	...	...	...
	Prince Edward Island								
	Scales Hydro Electric, Ltd.: ²								
16	Freetown	Dunk R.	...	1½ N. Kinkora	19	17	18	..	1931
17									1937
18	Total name plate rating in province of P.E.I. ....	...	...	...	...	...	...	...	...
	Nova Scotia								
	Berwick Electric Utility:								
19	Berwick	Factory Dale, R.	...	5 Factory Dale	72	50	70	22	1937
	Bridgewater Public Service Comm.:								
20	Conquerall Mills.....	Fancy L.	...	6 S.W. Bridgewater	31	27	30	..	1939
21	Hebbville.....	Hebbville L.	Fancy L.	2 W. Bridgewater	26	20	23	..	1925
22									
	Minas Basin Pulp and Power Co. Ltd.:								
23	St. Croix	St. Croix R.	...	St. Croix	161	158	160	262	1934
24	Salmon Hole	Panuke L.	St. Croix R.	3 St. Croix	..	..	..	262	1938
	Moirs Limited: ¹								
25	Bedford	Papermill L.	Bedford Basin	½ S. Bedford	65	..	65	24	..
	Nova Scotia Light and Power Co. Ltd.: ¹								
26	Avon # 1	Avon R.	...	10 S.W. Windsor	118	107	118	160	1958
27	Avon # 2	Avon R.	...	10 S.W. Windsor	142	132	142	138	1929
28	Bloody Creek	Bloody Crk.	...	3 S. Bridgetown	217	212	217	10	1927
29	Fall River	Fall R.	...	Fall River	96	90	94	22	1929
30	Hell's Gate	Black R.	...	½ S. White Rock	185	178	185	248	1930
31									1949
32	Hollow Bridge.....	Black R.	...	4 S. White Rock	149	144	148	328	1940
33	Lequille	Lequille R.	...	3 S. Anna. Royal	42	38	42	53	..
34	Lumsden	Black River	...	2½ S. White Rock	72	67	72	270	1942
35	Methals	Gaspereaux Crk.	...	10 S. White Rock	45	39	45	220	1949
36	Nictaux R.	Nictaux R.	...	4 S. Middleton	382	378	380	152	1954
37	Paradise	Paradise Brk.	...	4 S.E. Bridgetown	465	461	465	63	1950
38	The Falls	Waugh's R.	...	6 S. Tatamagouche	55	51	55	..	1928
39	White Rock	Gaspereaux R.	...	2 E. White Rock	60	56	58	348	1952

¹ See Steam Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators								No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
Francis	600	50	500	500	1939	..	2,300	60	80	500	400	400	2
Francis	514	150	3,600	3,600	1960	..	2,400	60	80	3,000	2,400	2,400	3
Francis	900	77	250	250	1930	..	2,400	60	75	200	150	150	4
Francis	514	275	5,600	5,600	1931	..	2,400	60	80	200	150	300	5
Francis	406	70	1,200	1,200	1957	..	6,900	60	80	5,000	4,000	4,000	6
Francis	450	190	1,500	1,500	1959	..	2,300	60	80	1,000	800	800	7
Francis	514	190	3,040	4,540	1922	..	2,300	60	80	1,500	1,200	1,200	8
Francis	900	365	1,500	1,500	1927	..	2,300	60	80	3,000	2,400	3,600	9
Francis	600	214	750	750	1932	..	2,300	60	80	1,500	1,000	1,000	10
Francis	600	214	750	750	1914	..	2,400	60	80	500	450	450	11
Francis	720	140	1,000	1,000	1942	..	2,400	60	80	875	700	700	12
Francis	1,200	575	1,850	1,850	1945	..	2,400	60	85	1,625	1,400	1,400	13
Francis	900	575	3,600	7,300	1958	..	2,400	60	80	1,625	1,400	2,400	14
...	...	...	...	366,949	...	...	...	...	...	293,468	...	259,210	15
R.	133	18	109	109	1931	..	2,300	60	80	100	80	80	16
Francis	338	18	100	209	1946	..	2,300	60	80	94	75	155	17
...	...	...	...	209	...	...	...	...	...	194	...	155	18
Francis	720	70	275	275	1937	..	200	60	80	325	260	260	19
Prop. K.	450	30	600	600	1939	..	6,900	60	80	500	400	400	20
Francis	180	25	260	260	1925	..	2,200	60	80	250	200	200	21
Francis	180	25	260	520	1925	..	2,200	60	80	250	200	400	22
Francis	400	148	4,200	4,200	1934	..	2,300	60	80	3,750	3,000	3,000	23
Francis	277	75	2,500	2,500	1938	..	2,300	60	80	2,500	2,000	2,000	24
..	..	..	..	..	1930	..	2,300	60	80	438	350	350	25
Francis	360	118	5,000	5,000	1958	360	2,300	60	50	7,500	3,750	3,750	26
Francis	400	142	3,900	3,900	1929	175	2,300	60	80	3,750	3,000	3,000	27
elton	290	217	315	315	1949	12	2,400	60	80	438	350	350	28
Francis	900	90	500	500	1929	..	2,200	60	80	438	350	350	29
Francis	450	185	4,500	4,500	1930	241	2,300	60	80	4,200	3,360	3,360	30
Francis	450	185	4,500	9,000	1949	175	2,300	60	85	4,200	3,570	6,930	31
Francis	257	148	7,500	7,500	1942	700	6,900	60	85	6,250	5,312	5,312	32
Francis	600	42	300	300	1928	..	2,300	60	90*	225	200	200	33
Francis	257	72	4,500	4,500	1942	260	6,900	60	80	3,500	2,800	2,800	34
rop.	240	45	4,600	4,600	1949	460	6,900	60	85	4,000	3,400	3,400	35
Francis	600	382	9,000	9,000	1954	153	6,900	60	80	8,500	6,800	6,800	36
Francis	720	465	5,000	5,000	1950	80	6,900	60	80	4,500	3,600	3,600	37
Francis	720	55	190	190	1928	..	2,200	60	80	150	120	120	38
Francis	200	58	4,000	4,000	1952	546	6,900	60	80	4,000	3,200	3,200	39

* See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Nova Scotia—Concluded								
	Nova Scotia Power Commission: ^{1,2}								
1	Barrie Brook	Barrie Brk.	Canso Strait.	4 N.W. Mulgrave	212	..	..	..	1940
2	Big Falls.....	Mersey R.	...	12 N.W. Liverpool	58	58	58	1,800	1929
3									
4	Cowie Falls	Mersey R.	...	3 N.W. Liverpool	43	43	43	1,800	1937
5									
6	Deep Brook	Mersey R.	...	3 N.W. Liverpool	46	46	46	1,800	1950
7									
8	Dickie Brook.....	Dickie Brk.	Chedabucto B.	4 S. Guysborough	298	298	298	..	1948
9									
10	Gulch	Bear R.	...	1 E. Bear River	254	250	..	..	1956
11	Harmony.....	Medway R.	...	3 N. Caledonia	37	37	37	362	1943
12	Liscomb.....	Liscomb R.	...	20 S.W. Sherbrooke	40	34	40	..	1952
13	Lower Great Brook.....	Mersey R.	...	6½ N.W. Liverpool	22	Static		1,800	1955
14									
15	Lower Lake Falls	Mersey R.	...	14 N.W. Liverpool	48	..	48	1,800	1929
16									
17	Malay Falls	East R., Sheet Hbr.	...	7 N. Sheet Harbour	41	41	41	..	1924
18									1954
19									1924
20	Mill Lake	North East R.	...	2 N. French Village	162	162	162	..	1921
21									
22	Ridge	Bear R.	...	3½ E. Bear River	148	..	140	..	1957
23	Roseway	Roseway R.	...	2 N.W. Shelburne	27	24	25	..	1930
24									1943
25	Ruth Falls.....	East R., Sheet Hbr.	...	2 N. Sheet Harbour	109	109	109	1,800	1927
26									
27									1936
28	Sandy Lake	Indian R.	North East R.	2 N. French Village	125	125	125	..	1927
29									
30	Sissiboo Falls	Sissiboo R.	...	4½ W. Weymouth	87	87	87	365	1960
31	Tide Water	North East R.	St. Margarets B.	½ S.W. French Village	91	91	91	..	1921
32									
33	Tusket	Tusket R.	...	3 N. Tusket	27	18	22	..	1929
34									
35									
36	Upper Lake Falls.....	L. Rossignol	Mersey R.	16 N.W. Liverpool	42	21	35	1,800	1929
37									
38	Weymouth Falls	Sissiboo R.	...	2 Weymouth	125	118	122	379	1960
39	Total name plate rating in province of N.S.	...	...	...	...	...	...	...	...
	New Brunswick								
	Bathurst Power and Paper Co. Ltd.: ¹								
40	Bathurst.....	Nepisiquit R.	...	20 W. Bathurst	110	90	105	762	1921
41									
42									1929
	Edmundston, City of: ²								
43	Green River.....	Green R.	...	St. Joseph	25	23	24	385	1926
44									1930
	Fraser Companies Limited: ¹								
45	Edmundston.....	Madawaska R.	...	Edmundston	24	12	21	683	1918
46									
	Maine & New Brunswick Electrical Power Co. Ltd.: ²								
47	Tinker	Aroostook R.	Saint John R.	3 W. Aroostook Jct.	85	70	84	1,187	1926
48									1922
49									1923
50									1952

¹ See Steam Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators								No.
Type of runner	r.p.m.	Main plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
R. Francis	900	212	500	500	1940	7	2,300	60	80	450	360	360	1
R. Francis	163	58	6,350		1929	1,200	6,600	60	90	5,000	4,500		2
"	"	"	6,350	12,700	"	"	"	"	"	5,000	4,500	9,000	3
R. Prop. K.	200	43	5,100		1937	860	13,200	60	90	4,000	3,600		4
"	"	"	5,100	10,200	"	"	"	"	"	4,000	3,600	7,200	5
R. Prop. K.	200	46	6,400		1950	1,500	6,900	60	90	5,000	4,500		6
"	"	"	6,400	12,800	"	"	"	"	"	5,000	4,500	9,000	7
R. Francis	900	298	1,750		1948	35	2,300	60	80	1,500	1,200		8
"	"	"	1,750	3,500	"	"	"	"	"	3,200	2,600	3,800	9
R. Francis	400	225	8,500	8,500	1952	525	13,800	60	80	7,500	6,000	6,000	10
R. Francis	200	31	1,200	1,200	1943	..	2,300	60	80	750	600	600	11
R. Francis	360	41	700	700	1952	..	2,300	60	75	600	450	450	12
R. Prop. K.	128	22	3,120		1955	1,250	6,900	60	90	2,500	2,250		13
"	"	"	3,120	6,240	"	"	"	"	"	2,500	2,250	4,500	14
R. Francis	150	48	5,300		1929	1,500	6,600	60	90	4,100	3,690		15
"	"	"	5,300	10,600	"	"	"	"	"	4,100	3,690	7,380	16
R. Francis	225	43	1,850		1924	260	2,300	60	80	1,500	1,200		17
"	"	41	1,740		"	"	"	"	"	1,500	1,200		18
"	"	43	1,850	5,440	"	"	"	"	"	1,500	1,200	3,600	19
R. Francis	514	162	1,900		1921	85	13,200	60	80	1,600	1,280		20
"	"	"	1,900	3,800	"	"	"	"	"	1,600	1,280	2,560	21
R. Francis	360	140	5,300	5,300	1957	220	6,900	60	80	5,000	4,000	4,000	22
R. Francis	450	27	360		1930	..	2,300	60	80	360	288		23
"	180	24	700	1,060	1943	..	6,600	"	"	750	600	888	24
R. Francis	400	110	3,290		1927	230	6,600	60	80	2,500	2,000		25
"	"	"	3,290		"	"	"	"	"	2,500	2,000		26
"	360	109	4,300	10,880	"	432	"	"	90	3,300	2,970	6,970	27
R. Francis	450	118	2,500		1927	113	13,200	60	80	2,000	1,600		28
"	"	"	2,500	5,000	"	"	"	"	"	2,000	1,600	3,200	29
R. Francis	225	87	8,000	8,000	1960	1,500	6,900	60	80	7,500	6,000	6,000	30
R. Francis	300	91	3,450		1921	530	13,200	60	80	2,900	2,320		31
"	"	"	3,450	6,900	"	"	"	"	"	2,900	2,320	4,640	32
R. Prop. K.	225	18	940		1929	220	6,600	60	80	900	720		33
"	"	"	940		"	"	"	"	"	900	720		34
"	"	"	940	2,820	"	"	"	"	"	900	720	2,160	35
R. Prop. K.	180	21	2,350		1929	700	6,600	60	90	3,000	2,700		36
"	"	"	2,350	4,700	"	"	"	"	"	3,000	2,700	5,400	37
R. Francis	257	122	12,000	12,000	1960	1,900	13,800	60	80	11,250	9,000	9,000	38
...	...	...	...	194,740	...	...	...	...	...	174,224	...	142,930	39
R. Francis	300	100	4,500		1921	500	4,400	60	100	3,600	3,600		40
"	"	109	4,500		1929	484	"	"	70	3,600	3,600		41
"	"	"	5,500	14,500	"	"	"	"	"	3,600	2,520	9,720	42
R. Francis	257	24	450		1926	..	2,400	60	80	375	300		43
R. Prop.	240	25	1,050	1,500	1930	..	"	"	"	1,000	800	1,100	44
R. Francis	133	21	1,000		1918	230	6,900	60	80	1,250	1,000		45
"	"	"	1,000	2,000	"	"	"	"	"	1,250	1,000	2,000	46
R. Francis	240	85	5,000		1926	..	12,000	60	80	4,400	3,520		47
"	360	"	2,000		1922	..	"	"	"	1,875	1,500		48
"	"	"	2,000		1923	..	"	"	"	1,875	1,500		49
"	300	"	5,000	14,000	1952	..	"	"	"	4,400	3,520	10,040	50

² See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	New Brunswick—Concluded								
	New Brunswick Electric Power Commission: ^{1,2}								
1	Beechwood	Saint John R.	...	5 N.W. Bath	58	29	57	10,200	1957
2									1958
3	Grand Falls	Saint John R.	...	Grand Falls	136	110	132	..	1931
4									1930
5									1928
6									"
7	Milltown	St. Croix R.	...	Milltown	25	20	23	..	1920
8									"
9									1911
10									"
11	Musquash	Musquash R.	...	17 W. Saint John	106	98	100	460	1920
12					127	122	125		"
13									"
14	Tobique	Tobique R.	...	3 S.W. Perth	75	60	70	2,320	1953
15									"
	St. George Pulp and Paper Co. Ltd.:								
16	St. George	Magaguadavic R.	...	St. George	53	48	52	1,100	1900
17									"
18	Total name plate rating in province of N.B. ....	...	...	...	...	...	...	...	...
	Quebec								
	Aluminum Company of Canada Ltd.:								
19	Chute-à-Caron	Saguenay R.	...	2 N. Kénogami	165	156	160	5,400	1934
20									1932
21									1931
22									"
23	Chute-du-Diable	Peribonka R.	...	8 N.E. L'Ascension	113	87	106	16,500	1952
24									"
25									"
26									"
27									"
28	Chute-des-Passes	Peribonka R.	...	92 N.E. St-Ludger de Milot	640	470	575	10,000	1959
29									"
30									"
31									1960
32									"
33	Chute-à-la-Savanne	Peribonka R.	...	1 N.E. Ste-Monique-de-Honfleur	125	103	114	17,700	1953
34									"
35									"
36									"
37									"
38	Shipshaw	Saguenay R.	...	2 N.W. Arvida	213	202	208	43,200	1943
39									"
40									"
41									"
42									"
43									"
44									1942
45									"
46									1943
47									"
48									"
49									"
	Anglo Canadian Pulp and Paper Mills Limited: ¹								
50	Forestville	Sault au Cochon	...	Forestville	69	64	67	100	1953
	Ayers Limited:								
51	Lachute Mills	North R.	...	1 N. Lachute	42	39	41	..	1929
52									"
53									"

¹ See Steam Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main Turbines					Main generators								No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ¹ lbs.-ft ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
R. Prop. K.	109	57	45,000	90,000	1957	..	13,800	60	90	40,000	36,000	72,000	1
"	"	"	45,000		1958	..	"	"	"	40,000	36,000		2
R. Francis	164	125	20,000	80,000	1931	..	6,600	60	90	17,500	15,750	63,000	3
"	"	"	20,000		1930	..	"	"	"	17,500	15,750		4
"	"	"	20,000		1928	..	"	"	"	17,500	15,750		5
"	"	"	20,000		"	..	"	"	"	17,500	15,750		6
R. Francis	150	21	1,080	3,740	1920	..	600	60	80	810	700	2,475	7
"	"	"	1,080		"	..	"	"	"	810	700		8
"	"	"	1,080		"	..	"	"	"	810	700		9
..	185	25	500	3,740	1911	..	"	"	"	470	375	2,475	10
R. Francis	300	100	3,670		1920	..	13,200	60	80	2,900	2,320		11
"	"	"	3,670	11,100	"	..	"	"	"	2,900	2,320	6,960	12
"	"	125	3,760		"	..	"	"	"	2,900	2,320		13
R. Prop. K.	225	75	13,500	27,000	1953	..	6,900	60	80	12,500	10,000	20,000	14
"	"	"	13,500		"	..	"	"	"	12,500	10,000		15
R. Francis	514	52	1,000	2,000	1950	..	600	60	80	875	700	1,400	16
"	"	"	1,000		"	..	"	"	"	875	700		17
...	...	...	...	245,840	...	...	...	...	...	215,575	...	188,695	18
R. Francis	120	160	75,000	300,000	1934	68,920	13,200	60	90	50,000	45,000	135,000	19
"	"	"	75,000		1932	68,920	"	"	"	50,000	45,000		20
"	"	"	75,000		1931	68,920	"	"	"	50,000	45,000		21
"	"	"	75,000		"	68,920	"	"	"	50,000 ²	45,000 ²		22
R. Francis	106	110	55,000	275,000	1952	61,620	13,800	60	70	53,500	37,500	187,500	23
"	"	"	55,000		"	61,620	"	"	"	53,500	37,500		24
"	"	"	55,000		"	61,620	"	"	"	53,500	37,500		25
"	"	"	55,000		"	61,620	"	"	"	53,500	37,500		26
"	"	"	55,000		"	61,620	"	"	"	53,500	37,500		27
"	"	"	55,000		"	61,620	"	"	"	53,500	37,500		28
R. Francis	200	540	200,000	1,000,000	1959	65,000	14,400	60	90	165,000	148,500	742,500	29
"	"	"	200,000		"	"	"	"	"	165,000	148,500		30
"	"	"	200,000		"	"	"	"	"	165,000	148,500		31
"	"	"	200,000		1960	"	"	"	"	165,000	148,500		32
"	"	"	200,000		"	"	"	"	"	165,000	148,500		33
"	"	"	200,000		"	"	"	"	"	165,000	148,500		34
R. Francis	106	110	57,000	285,000	1953	50,470	13,800	60	70	53,500	37,500	187,500	35
"	"	"	57,000		"	50,470	"	"	"	53,500	37,500		36
"	"	"	57,000		"	50,470	"	"	"	53,500	37,500		37
"	"	"	57,000		"	50,470	"	"	"	53,500	37,500		38
"	"	"	57,000		"	50,470	"	"	"	53,500	37,500		39
"	"	"	57,000		"	50,470	"	"	"	53,500	37,500		40
R. Francis	129	208	95,000	1,200,000	1943	71,460	13,200	60	90	65,000	58,500	792,000	41
"	"	"	95,000		"	71,460	"	"	"	65,000	58,500		42
"	"	"	103,000		"	74,720	"	"	"	75,000	67,500		43
"	"	"	103,000		"	83,880	"	"	"	75,000	67,500		44
"	"	"	103,000		"	74,720	"	"	"	75,000	67,500		45
"	"	"	103,000		"	83,880	"	"	"	75,000	67,500		46
"	"	"	103,000		"	74,720	"	"	"	75,000	67,500		47
"	"	"	103,000		1942	74,720	"	"	"	75,000	67,500		48
"	"	"	103,000		"	83,880	"	"	"	75,000	67,500		49
"	"	"	103,000		1943	74,720	"	"	"	75,000	67,500		50
"	"	"	103,000		"	83,880	"	"	"	75,000	67,500		51
"	"	"	95,000		"	74,720	"	"	"	75,000	67,500		52
"	"	"	95,000		"	83,880	"	"	"	75,000	67,500		53
Francis	514	67	1,300	1,300	1953	..	2,300	60	80	1,250	1,000	1,000	50
R.	257	36	1,500	4,500	1929	..	2,300	60	80	1,500	1,200	3,600	51
"	"	"	1,500		"	..	"	"	"	1,500	1,200		52
"	"	"	1,500		"	..	"	"	"	1,500	1,200		53

¹ See Internal Combustion Equipment Section.² Generator not included in totals, being used as condensor.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Quebec - Continued								
1	Belleterre Quebec Mines Ltd.: Winneway	Winneway R.	...	10 Laforce	65	54	60	345	1938 1943
3	Bonaventure Co-op: ¹ St. Elzéar	R. Hall	R. Bonaventure	2 E. St. Elzéar	120	113	118	..	1929 1946
5	Canada Paper Company: ¹ Windsor Mills	St. Francis R.	...	Windsor Mills	16	3	14	3,200	1936 " 1939 "
9	Canadian International Paper Co.: ^{1,2} Pentecost River	Pentecost R.	...	Pentecost R.	..	..	..	..	1946
10	Coaticook, Ville de: ² Coaticook	R. Coaticook	...	N.E. Coaticook	150	146	146	100	1927 "
12	Corporation Électrique de Charlevoix: St. Joseph de-la-Rive	R. de-la-Pointe	...	St-Joseph-de-la-Rive	450	448	..	..	1928
13	Consolidated Paper Corporation Ltd.: ² Grade Baie # 1	Ha-Ha R.	...	4 Ste. Alexis	100	100	100	120	1917
14	Grand Baie # 2	Ha-Ha R.	...	1½ Ste. Alexis	75	75	75	117	1918
15	Les Escoumains	Escoumains R.	...	¼ Les Escoumains	22	22	22	160	1938
16	Portneuf	Portneuf R.	...	3 Portneuf	32	32	32	..	1949
17	Dominion Rubber Co. St. Jérôme Footwear Plant	North R.	...	St. Jérôme	31	28	29	161	1919
18	Dominion Textile Co. Ltd.: ¹ Magog	L. Memphremagog	Magog R.	Magog	27	24	25	1,000	1920 "
20	Montmorency	Montmorency R.	St. Lawrence R.	½ Montmorency	60	60	60	..	..
21	Donnacona Paper Co. Ltd.: Birds Mill	Jacques Cartier R.	...	1 W. Pont Rouge	28	24	26	880	1937
22	D.P. Co. Mill	Jacques Cartier R.	...	S. Donnacona	65	55	62	..	1961
23	McDougall	Jacques Cartier R.	...	2 W. Pont Rouge	62	57	60	740	1925 1927
25	The E.B. Eddy Company: ¹ Chaudière Falls	Ottawa R.	...	Hull	40	32	37	5,000	1955R " " "
28	Electric Reduction Co. of Canada Ltd.: Buckingham	Lièvre R.	...	Buckingham	33	30	32	4,000	1914 1915 1939 1928 1920
33	Électrification Rurale: Centrale de Magpie	Magpie R.	...	3 E. Magpie	31	22	27	..	1961 "
35	Petites Bergeronnes # 1	Petites Bergeronnes R.	...	7 N.W. Grandes Bergeronnes	165	165	165	..	1953 "
37	Petites Bergeronnes # 2	Petites Bergeronnes R.	...	¼ from # 1	165	165	165	..	1957 "
39	Coopérative d'électricité de Gaspé Nord: ² Mont-Louis	Mont-Louis L.	Mont-Louis	Mont Louis	..	..	100	..	..

¹ See Steam Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators									No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating							
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.		
R. Francis	257	57	1,400	2,800	1938	..	2,300	60	80	1,375	1,100	2,200	1	
"	"	"	1,400		1943	..	"	"	"	"	1,375		1,100	2
..	900	120	550	1,100	1929	..	2,400	60	80	438	350	700	3	
"	"	"	550		1946	..	"	"	"	"	438		350	4
R. Prop. K.	180	19	1,100	1,100	..	..	2,300	60	80	1,400	1,120	1,120	5
"	"	"	1,100		"	"	"	"	1,400		1,120	6
R. Francis	150	"	730	3,660	..	..	600	"	"	750	600	3,160	7
"	"	"	730		575	"	"	"	400		320	8
..	900	..	250	250	1946	..	2,400	60	80	250	220	220	9	
R.	900	136	1,200	2,400	1927	..	2,400/4,000	60	80	900	720	1,440	10	
"	"	"	1,200		"	..	"	"	"	"	900		720	11
I	2,000	450	100	100	1928	..	110	DC	...	...	80	80	12
R. Prop.	450	100	1,206	1,206	1917	..	2,200	60	92	900	828	828	13	
R. Prop.	..	75	670	670	1918	..	2,200	60	92	500	460	460	14	
R. Leffel	277	22	320	320	1938	..	550	60	80	320	256	256	15	
..	..	32	180	180	1949	..	550	60	80	320	256	256	16	
R. Francis	225	28	800	800	1919	..	600	60	80	312	250	250	17	
R. Francis	133	25	1,350	2,700	1920	..	2,400	60	80	1,250	1,000	2,000	18	
"	"	"	1,350		"	"	"	"	1,250		1,000	19
R. Francis	472	60	500	500	..	..	600	60	80	650	500	500	20
R. Prop.	180	26	2,250	2,250	1937	420	600	60	80	2,400	1,920	1,920	21	
R. Francis	250	55	1,200	1,200	1961	..	2,400	60	80	1,500	1,200	1,200	22	
R. Francis	250	50	1,900	3,800	1925	..	2,400	60	80	1,500	1,200	2,400	23	
"	"	"	1,900		1927	..	"	"	"	"	1,500		1,200	24
R. Francis	164	38	5,500	16,500	1913	..	2,300	60	100	3,750	3,750	11,250	25	
"	"	"	5,500		"	"	"	"	3,750		3,750	26
"	"	"	5,500		"	"	"	"	3,750		3,750	27
t. Francis	165	30	2,000	10,500	1914	..	125	DC	...	...	1,375	7,535	28
"	"	"	2,000		1915	..	2,300	60	90	1,600	1,440		29	
t. Prop.	225	"	2,500		1939	..	"	"	"	2,040	1,840		30	
t. Francis	165	"	2,000		1928	..	"	"	"	1,600	1,440		31	
"	"	"	2,000		1920	..	"	"	"	1,600	1,440		32	
t. Francis	144	27	1,500	3,000	1961	..	600	60	90	1,125	1,000	2,000	33	
"	"	"	1,500		"	"	"	"	1,125		1,000	34
..	900	165	600	1,200	1953	..	2,400	60	90	500	450	900	35	
"	"	"	600		"	"	"	"	500		450	36
..	720	170	722	1,444	1957	..	2,400	60	80	625	500	1,000	37	
"	"	"	722		"	"	"	"	625		500	38
..	720	100	1,000	1,000	1955	..	..	60	80*	938*	750	750	39

* See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 — Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Quebec — Continued			(miles)					
	Gatineau Power Company:								
1	Bell Falls	Rouge R.	...	W. Bell Falls	56	50	53	..	1915
2									1920
3									1925
4	Bryson	Ottawa R.	...	2 S.E. Bryson	64	46	60	..	1929
5									1949
6									1902
7	Chaudière # 1	Ottawa R.	...	Hull	42	22	38	..	1904
8									1909
9									1912
10									1920
11	Chaudière # 2	Ottawa R.	...	Hull	43	23	40	..	1923
12									1927
13									1929
14	Chelsea	Gatineau R.	...	¾ E. Chelsea	102	86	97	..	1939
15									1927
16									1926
17	Corbeau	Gatineau R.	...	5 S. Maniwaki	15	10	12	..	1927
18									1929
19									1947
20	Farmers	Gatineau R.	...	Limbour	72	62	66	..	1927
21									1929
22									1927
23									1926
24	High Falls	Petite Blanche R.	...	3 N. Ste. Rose	..	..	60	..	1920
25	Kipawa	Gordon Crk.	Ottawa R.	Temiskaming	220	192	204	..	1926
26									1956
27									1931
28	Paugan	Gatineau R.	...	½ E. Low	144	109	136	..	1928
29									"
30									"
31									"
32									"
33									"
34									"
35									"
36									"
37									"
38									"
39									"
40	Rawdon	Ouareau R.	...	1 N. Rawdon	52	31	50	..	1927
41	Ripon	North Nation R.	...	1½ N. Ripon	..	..	21	..	1925
42	Ste. Adèle	North R., E. Branch	...	Ste. Adèle en Bas	203	197	200	..	1924
43		(Doncaster R.)							"
44									"
45	Thurso	Blanche R.	...	1 N. Thurso	..	..	56	..	1922
46	Wilson Chute	North R.	...	4 N. St. Jérôme	..	..	75	..	1924
47									"
	The Gulf Power Co.:								
48	Ste. Marguerite	Ste. Marguerite R.	...	3 N. Clarke City	124	77	124	850	1954
49									"
	Hart Jaune Power Co.:								
50	Fifty Foot Falls	Little Manicouagan L.	Hart Jaune R.	15 S.E. Gagnon	130	130	130	3,260	1960
51									"
52									"
	Hull, Usine d'Énergie Électrique de la Cité de:								
53	Waterworks	Brewery Crk.	...	Hull	20	14	18	348	1916
	Jonquière, Centrale de la Cité de:								
54	Jonquière # 1	R.-au-Sable	...	Jonquière	47	..	47	800	1907
55									1924
56	Jonquière # 2	R.-au-Sable	...	Jonquière	47	..	47	800	1948

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators								No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
R. Francis	277	54	2,400		1915	..	2,300	60	80	2,000	1,600		1
"	"	"	2,400		"	..	"	"	"	2,000	1,600		2
"	"	"	2,400	7,200	1920	..	"	"	"	2,000	1,600	4,800	3
R. Francis	120	60	25,700		1925	..	6,600	60	80	22,500	18,000		4
"	"	"	25,700		1929	..	"	"	"	22,500	18,000		5
"	"	"	27,000	78,400	1949	..	"	"	"	25,000	20,000	56,000	6
C. Francis	138	38	2,500		1902	..	2,300	60	85	1,500	1,275		7
"	"	"	2,500		"	..	"	"	"	1,500	1,275		8
"	"	"	2,500		1904	..	"	"	"	1,500	1,275		9
"	163	"	3,300		1909	..	11,000	"	"	2,000	1,700		10
"	"	"	3,300	14,100	1912	..	"	"	"	2,500	2,125	7,650	11
R. Francis	120	32	7,500		1920	5,000	2,300	60	80	6,750	5,400		12
"	"	"	7,500		"	"	"	"	"	6,750	5,400		13
"	"	"	7,500	22,500	1923	"	"	"	"	7,200	5,760	16,560	14
R. Francis	100	93	34,000		1947	..	6,600	60	80	36,000	28,800		15
"	"	"	34,000		1927	..	"	"	"	36,000	28,800		16
"	"	"	34,000		1929	..	"	"	"	36,600	28,800		17
"	"	"	34,000		1939	..	"	"	"	36,600	28,800		18
"	"	"	34,000	170,000	1927	..	"	"	"	36,600	28,800	144,000	19
R. Francis	150	12	1,250		1926	..	2,400	60	80	1,250	1,000		20
"	"	"	1,250	2,500	"	..	"	"	"	1,250	1,000	2,000	21
R. Francis	90	66	24,000		1927	..	6,600	60	80	25,000	20,000		22
"	"	"	24,000		"	..	"	"	"	25,000	20,000		23
"	"	"	24,000		1929	..	"	"	"	25,000	20,000		24
"	"	"	24,000		1947	..	"	"	"	22,500	19,125		25
"	"	"	24,000	120,000	1927	..	"	"	85	22,500	19,125	98,250	26
R. Francis	300	50	600	600	1926	..	6,600	60	80	425	340	340	27
R. Francis	450	200	3,600		1920	..	6,600	60	80	3,500	2,800		28
"	"	"	3,600		"	..	"	"	"	3,500	2,800		29
"	360	"	8,500		1926	..	"	"	"	7,200	5,760		30
"	"	"	8,500	24,200	"	..	"	"	"	7,200	5,760	17,120	31
R. Francis	129	133	47,000		1956	..	6,600	60	90	36,000	32,400		32
"	"	132	34,000		1931	..	"	"	85	28,500	24,225		33
"	125	"	34,000		1928	..	"	"	"	28,500	24,225		34
"	"	"	34,000		"	..	"	"	"	28,500	24,225		35
"	"	"	34,000		"	..	"	"	"	28,500	24,225		36
"	"	"	34,000		"	..	"	"	"	28,500	24,225		37
"	"	"	34,000		"	..	"	"	"	28,500	24,225		38
"	"	"	34,000	285,000	"	..	"	"	"	28,500	24,225	201,975	39
Francis	300	50	2,300	2,300	1927	..	6,600	60	80	2,150	1,720	1,720	40
Francis	120	35	564	564	1925	..	2,400	60	80	560	448	448	41
Francis	900	200	525		1924	..	6,600	60	80	450	360		42
"	"	"	525		"	..	"	"	"	450	360		43
"	"	"	525	1,575	"	..	"	"	"	700	560	1,280	44
Francis	600	56	400	400	1922	..	6,600	60	80	250	200	200	45
Francis	720	75	600		1924	..	2,300	60	80	560	448		46
"	"	"	600	1,200	"	..	"	"	"	560	448	896	47
Francis	200	100	12,000		1954	2,100	13,800	60	80	11,000	8,800		48
"	"	"	12,000	24,000	"	"	"	"	"	11,000	8,800	17,600	49
Francis	200	123	22,000		1960	6,600	13,800	60	85	19,000	16,150		50
"	"	"	22,000		"	"	"	"	"	19,000	16,150		51
"	"	"	22,000	66,000	"	"	"	"	"	19,000	16,150	48,450	52
R.	100	18	1,000	1,000	1916	..	2,300	60	80	750	600	600	53
R.	300	42	700		1907	..	2,300	60	80	450	360		54
"	"	"	1,800	2,500	1924	..	"	"	"	1,600	1,280	1,640	55
Prop.	257	47	4,030	4,030	1948	..	2,300/4,100	60	90	3,125	2,812	2,812	56

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Quebec - Continued			(miles)					
	La Sarre Power Co.:								
1	No. 1	R. La Sarre	...	4 N.E. La Sarre	25	23	25	600	1928
2									"
3	No. 2	R. La Sarre	...	3 N.N.W. La Sarre	20	18	20	600	1938
4									1943
5									
	Lower St. Lawrence Power Co.: ²								
6	Price	Métis R.	...	N. Price	128	120	128	600	1922
7									1929
8	Grand Métis	Métis R.	...	2 N. Price	80	71	75	600	1947
	The James MacLaren Co. Ltd.:								
9	Dufferin Falls	Lièvre R.	...	Buckingham	66	..	60	4,300	1958
10									1959
	MacLaren - Quebec Power Company:								
11	High Falls	Lièvre R.	...	7 N.N.D. de la Salette	200	165	180	5,180	1936
12									1930
13									"
14									"
15	Masson	Lièvre R.	...	Masson	201	169	185	4,846	1933
16									"
17									"
18									"
	Magog, Cité de:								
19	Magog	Memphremagog L.	...	2 Magog	...	...	21	400	1911
	Manicouagan Power Co.:								
20	McCormick Dam	Manicouagan R.	...	10 E. Baie Comeau	126	117	124	20,600	1951
21									1952
22									1957
23									1958
24									"
	Mégantic, Town of:								
25	Gayhurst	Chaudière R.	...	5 Mégantic	65	60	63	400	1954
26									"
27	St. Cécile	Chaudière R.	...	12 Mégantic	28	24	26	400	1923
28									1931
	Mohawk Corporation Co.:								
29	Rivière du Loup	Rivière du Loup	St. Laurent R.	Rivière du Loup	70	62	70	350	1925
	Mont Laurier Ltée. Électrique de: ²								
30	Mont Laurier	Lièvre R.	...	Mont Laurier	22	18	20	..	1937
31									1951
32									"
33	Val Barrette	Kiamika	...	Val Barrette	37	35	37	300	1949
	Mont Louis Seignory Limited:								
34	Mont Louis Seignory	R. Mont Louis	...	9 S. Mont Louis	..	..	150	..	1930
	Montmagny Furniture Co.:								
35	Montmagny	Rivière du Sud	...	Montmagny	50	25	..	..	..
36									
	Northern Quebec Power Co. Ltd.:								
37	Quinze Plant	Des Quinze R. (Upper Ottawa R.)	...	5 Angliers	91	81	87	10,067	1923
38									"
39									1928
40									"
41									1951
42									1955

² See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators								No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
R. Francis	300	25	525		1928	..	6,900	60	85	400	340		1
"	"	"	525		"	..	"	"	"	400	340		2
"	"	"	525	1,575	1937	..	"	"	"	500	425	1,105	3
R. Prop.	257	20	825		1938	..	2,300	60	85	625	530		4
"	"	"	360	1,185	1943	..	"	"	"	300	255	785	5
R. Francis	400	128	3,700		1922	150	4,000	60	80	3,000	2,400		6
"	360	120	5,900	9,600	1929	425	"	"	"	5,000	4,000	6,400	7
R. Francis	200	75	6,000	6,000	..	1,000	4,000	60	85	5,000	4,250	4,250	8
R. Prop. K.	164	62	25,000		1958	38,180	23,200	60	85	22,500	19,125		9
"	"	"	25,000	50,000	1959	"	"	"	"	22,500	19,125	38,250	10
R. Francis	180	180	32,500		1936	9,000	13,200	60	85	25,000	21,250		11
"	"	"	30,000		1930	"	"	"	"	25,000	21,250		12
"	"	"	30,000		"	"	"	"	"	25,000	21,250		13
"	"	"	30,000	122,500	"	"	"	"	"	25,000	21,250	85,000	14
R. Francis	167	185	34,000		1933	12,000	13,200	60	85	28,000	23,800		15
"	"	"	34,000		"	"	"	"	"	28,000	23,800		16
"	"	"	34,000		"	"	"	"	"	28,000	23,800		17
"	"	"	34,000	136,000	"	"	"	"	"	28,000	23,800	95,200	18
I	150	21	1,200	1,200	1911	..	2,400	60	70	625	443	443	19
R. Francis	112	124	56,200		1951	28,700	13,800	60	95	37,500	35,625		20
"	"	"	56,200		1952	"	"	"	"	37,500	35,625		21
"	"	"	60,000		1957	34,000	"	"	80	50,000	40,000		22
"	"	"	60,000		1958	"	"	"	"	50,000	40,000		23
"	"	"	60,000	292,400	"	"	"	"	"	50,000	40,000	191,250	24
R. Francis	300	64	2,250		1954	..	2,400	60	80	2,000	1,600		25
"	"	"	2,250	4,500	"	..	"	"	"	2,000	1,600	3,200	26
R. Prop.	325	26	500		1923	..	6,600	60	80	450	360		27
R. Francis	300	"	500	1,000	1931	..	"	"	"	450	360	720	28
R	720	75	465	465	1925	..	550	60	80	425	340	340	29
..	100	22	500		1937	..	2,400	60	80	620	500		30
R. Prop.	180	"	1,325		1951	..	"	"	"	1,125	900		31
"	"	"	1,325	3,150	"	..	"	"	"	1,125	900	2,300	32
I	300	37	500	500	..	..	..	60	60	300	180	180	33
R. Prop. K.	720	150	1,000	1,000	1931	..	2,300	60	100*	750	750	750	34
..	..	..	300*	300*	..	..	2,300	60	80	312	250		35
"	"	"	"	"	"	..	2,200	DC	...	...	175	425 ^S	36
R. Francis	187	90	12,500		1923	..	11,000	25	80	10,000	8,000		37
"	"	"	12,500		"	..	"	"	"	10,000	8,000		38
"	167	"	12,500		1928	..	"	"	"	13,500	10,800		39
"	"	"	12,500		"	..	"	"	"	13,500	10,800		40
"	107	"	34,500		1951	..	"	"	"	32,500	26,000		41
"	"	"	34,500	119,000	1955	..	"	"	"	32,500	26,000	89,600	42

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Quebec—Continued								
1	Ogilvie Flour Mills Co. Limited: ¹								
2	Ogilvie Flour Mills.....	Lachine C.	St. Lawrence R.	Mill St., Montreal	17	9	15	..	1940
3					27	11	23		1948
4									
5	Ottawa Valley Power Co.:								
6	Chats Falls	Ottawa R.	...	8 N.E. Arnprior	54	42	52	14, 214	1932
7									
8									
9	Parent, La Corporation Municipale du:								
	Parent.....	R. Bazin	...	85 Parent	..	..	30	..	1957
10	Pembroke Electric Light Company Ltd.:								
11	Waltham	Black R.	...	1 W. Waltham	132	126	129	900	1917
12									1940
13									1944
14									1950
									1951
15	Penman's Limited: ²								
16	St. Hyacinthe.....	Yamaska R.	...	10 S. St. Pie	16	8	12	26, 400	1929
17	Petit Saguenay, La Coopérative d'Élec-								
18	tricité:								
	Anse St. Jean	Rivière St. Jean	...	5 W. Anse St. Jean	75	40	70	..	1957
	Petit Saguenay	P. Saguenay R.	...	5 S. Petit Saguenay	69	45	63	..	1949
19	Price Brothers & Co. Ltd.:								
	Adam Cunningham.....	L. Brochet	Shipshaw R.	4 N.W. St. David de Falardeau	47	43	45	1, 800	1953
20	Chicoutimi	Chicoutimi R.	...	Chicoutimi	72	65	70	1, 600	1923
21	Chute aux Galets	Shipshw R.	...	5 N.W. St. David de Falardeau	102	97	101	1, 800	1921
22									
23	Jim Gray (Chutes des Georges)	L. Lamothe	L. Brochet	7 N.W. St. David de Falardeau	338	325	336	1, 800	1953
24									
25	Jonquiére Mill	Au Sable R.	...	Jonquiére	..	..	67	800	1916
26									
27	Kénogami Lower Level	Au Sable R.	...	1 N. Kénogami	265	262	264	800	1912
28									
29	Murdock Willson	Shipshaw R.	...	Arvida	270	256	266	1, 800	1957
30	Quebec Hydro-Electric Commission: ^{2,4}								
31	Beauharnois (Section 1.)	St. Lawrence R.	...	1 W. Beauharnois	82	76	78	232, 000	1932
32									
33									1935
34									1936
35									1939
36									1941
37									
38									1948
39									1932
40									
41									1934
42									1935
43									
44	Beauharnois (Section 2.)	St. Lawrence R.	...	1 W. Beauharnois	82	76	78	232, 000	1941
45									1950
46									
47									1951
48									
49									
50									
51									1953
52									
53									1952
54									1953
55									1952

¹ See Steam Equipment Section.² See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators								No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq.	Power factor	kva.	kw.	Total plant kw.	
								(cycles)	(per cent)				
R.	257	15	400		1940	505	2,300	60	80	375	300		
"	"	"	400		"	"	"	"	"	375	300		2
"	180	23	1,600		1948	"	"	"	60	1,420	850		3
"	"	"	1,600	4,000	"	"	"	"	"	1,420	850	2,300	4
R. Prop.	120	53	28,000		1932	20,000	13,800	60	95	23,500	22,325		5
"	"	"	28,000		"	"	"	"	"	23,500	22,325		6
"	"	"	28,000	112,000	"	"	"	"	"	23,500	22,325		7
"	"	"	28,000		"	"	"	"	"	23,500	22,325	89,300	8
..	360	30	1,340	1,340	..	..	..	60	100	1,000	1,000	1,000	9
R. Francis	514	129	1,800		1917	..	2,500	60	80	1,563	1,250		10
"	"	"	2,250		1940	..	"	"	85	1,800	1,530		11
"	"	"	2,500		1944	..	"	"	80	2,200	1,800		12
"	360	"	3,000		1950	..	"	"	"	2,812	2,250		13
"	"	"	3,000	12,550	1951	..	"	"	"	2,812	2,250	9,080	14
R.	180	..	300		1929	50	600	60	80	325	260		15
"	"	..	300	600	"	"	"	"	"	325	260	520	16
R. Francis	514	66	600	600	1957	..	2,400	60	80	500	400	400	17
R. Francis	514	69	300	300	1949	..	2,300	60	90*	225	200	200	18
R. Prop.	180	56	9,500	9,500	1953	2,200	6,900	60	85	7,500	6,375	6,375	19
R. Francis	129	72	11,000	11,000	1923	4,725	6,600	60	90	11,000	9,900	9,900	20
R. Francis	189	101	8,820		1921	1,800	6,600	60	80	8,000	6,400		21
"	"	"	8,820	17,640	"	"	"	"	"	8,000	6,400	12,800	22
R. Francis	277	338	35,000		1953	5,400	13,800	60	85	30,000	25,500		23
"	"	"	35,000	70,000	"	"	"	"	"	30,000	25,500	51,000	24
R. Francis	240	67	1,800		1926	..	6,600	60	80	1,500	1,200		25
"	"	"	1,625	3,425	1942	200	"	"	"	1,500	1,200	2,400	26
R. Francis	600	264	3,350		1912	100	6,600	60	80	2,345	1,875		27
"	"	"	3,350	6,700	"	"	"	"	"	2,345	1,875	3,750	28
R. Francis	180	263	82,000	82,000	1957	26,000	13,800	60	85	60,000	51,000	51,000	29
R. Francis	75	80	53,000		1932	110,000	12,000	60	80	46,625	37,300		30
"	"	"	53,000		"	"	"	"	"	46,625	37,300		31
"	"	"	53,000		1935	"	"	"	"	46,625	37,300		32
"	"	"	53,000		1936	"	"	"	"	46,625	37,300		33
"	"	"	53,000		1939	"	"	"	"	46,625	37,300		34
"	"	"	53,000		1941	"	"	"	"	46,625	37,300		35
"	"	"	53,000		"	"	"	"	"	46,625	37,300		36
"	"	"	53,000		1948	"	"	"	"	46,625	37,300		37
"	"	"	53,000		1932	"	"	"	"	46,625	37,300		38
"	"	"	53,000		"	"	"	"	"	46,625	37,300		39
"	"	"	53,000		1934	"	"	"	"	46,625	37,300		40
"	"	"	53,000		1935	"	"	"	"	46,625	37,300		41
"	"	"	53,000		"	"	"	"	"	46,625	37,300		42
"	"	"	53,000	742,000	1941	"	"	"	"	46,625	37,300	522,200	43
R. Francis	75	80	55,000		1950	110,000	12,000	60	80	50,000	40,000		44
"	"	"	55,000		"	"	"	"	"	50,000	40,000		45
"	"	"	55,000		1951	"	"	"	"	50,000	40,000		46
"	"	"	55,000		"	"	"	"	"	50,000	40,000		47
"	"	"	55,000		"	"	"	"	"	50,000	40,000		48
"	"	"	55,000		"	"	"	"	"	50,000	40,000		49
"	"	"	56,000		1953	"	"	"	"	50,000	40,000		50
"	"	"	56,000		"	"	"	"	"	50,000	40,000		51
"	"	"	56,000		1952	"	"	"	"	50,000	40,000		52
"	"	"	56,000		1953	"	"	"	"	50,000	40,000		53
"	"	"	56,000		1952	"	"	"	"	50,000	40,000		54
"	"	"	56,000	666,000	"	"	"	"	"	50,000	40,000	480,000	55

* See Gas Turbine Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Quebec—Continued								
	Quebec Hydro-Electric Commission — Concluded:								
1	Beauharnois (Section 3)	St. Lawrence R.	...	1 W. Beauharnois	82	76	78	232,000	1956
2									"
3									"
4									"
5									1960
6									"
7									1961
8									"
9									"
10									"
11	Bersimis # 1	L. Casse	Bersimis R.	½ N. Labrieville	860	785	840	9,450	1956
12									"
13									1957
14									"
15									1958
16									"
17									"
18									"
19	Bersimis # 2	L. Casse	Bersimis R.	25 S.E. Labrieville	388	370	390	10,400	1960
20									"
21									1959
22									"
23									"
24	Cedars Rapids	St. Lawrence R.	...	½ E. Cedars	40	32	36	15,000	1915
25									"
26									"
27									"
28									"
29									"
30									1914
31									"
32									1915
33									1916
34									1924
35									"
36									1918
37									"
38									1922
39									"
40									1923
41									1924
42	Montreal Island.....	R. des Prairies	...	½ S.W. St. Vincent de Paul	27	18	25	20,000	1929
43									"
44									1930
45									1929
46									"
47									1930
48	Rapid II	Upper Ottawa R.	...	28 S.S.W. Cadillac	72	60	67	7,840	1954
49									"
50									1957
51	Rapid VII	Upper Ottawa R.	...	38 S. Cadillac	74	65	68	7,370	1941
52									"
53									1946
54									1949
	Quebec North Shore Paper Company:								
55	Franquelin.....	Franquelin R.	...	¾ Franquelin	22	20	21	..	1921
56	Outardes Falls	Outardes R.	...	½ E. Chutes aux Outardes	231	222	230	3,400	1937
57									"
58	Shelter Bay	Rochers R.	...	N.E. Shelter B.	28	22	23	864	1920
	Quebec Power Company:								
59	Chaudière	Chaudière R.	...	1 N.E. St. Rédempteur	122	114	115	625	1900
60									"
61									1903
62	Montmorency Falls	Montmorency R.	St. Lawrence R.	½ E. Montmorency	222	208	209	225	1894
63									"
64									1898
65									1900
66	Natural Steps	Montmorency R.	...	½ N. St. Louis de Courville	74	60	61	286	1908
67	St. Gabriel.....	Jacques Cartier R.	...	4 N.W. Val St. Michel	38	32	33	760	1899
68									

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators								No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs.-ft ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq.	Power factor	kva.	kw.	Total plant kw.	
								(cycles)	(per cent)				
R. Prop. F.	95	80	73,700		1959	83,500	13,800	60	85	65,000	55,250		1
"	"	"	73,700		"	"	"	"	"	65,000	55,250		2
"	"	"	73,700		"	"	"	"	"	65,000	55,250		3
"	"	"	73,700		"	"	"	"	"	65,000	55,250		4
"	"	"	73,700		"	"	"	"	"	65,000	55,250		5
"	"	"	73,700		1960	"	"	"	"	65,000	55,250		6
"	"	"	73,700		"	"	"	"	"	65,000	55,250		7
"	"	"	73,700		"	"	"	"	"	65,000	55,250		8
"	"	"	73,700		1961	"	"	"	"	65,000	55,250		9
"	"	"	73,700	737,000	"	"	"	"	"	65,000	55,250	552,500	10
R. Francis	277	785	150,000		1956	"	13,800	60	95	138,000	131,000		11
"	"	"	150,000		"	"	"	"	"	138,000	131,000		12
"	"	"	150,000		"	"	"	"	"	138,000	131,000		13
"	"	"	150,000		1957	"	"	"	"	138,000	131,000		14
"	"	"	150,000		"	"	"	"	"	138,000	131,000		15
"	"	"	150,000		1958	"	"	"	"	138,000	131,000		16
"	"	"	150,000		"	"	"	"	"	138,000	131,000		17
"	"	"	150,000	1,200,000	"	"	"	"	"	138,000	131,000		18
R. Francis	164	380	171,000		1960	82,000	13,800	60	85	120,000	114,000		19
"	"	"	171,000		"	"	"	"	"	120,000	114,000		20
"	"	"	171,000		1959	"	"	"	"	120,000	114,000		21
"	"	"	171,000		"	"	"	"	"	120,000	114,000		22
"	"	"	171,000	855,000	"	"	"	"	"	120,000	114,000	570,000	23
R. Francis	56	30	10,800		1915	"	6,600	60	75	10,000	7,500		24
"	"	"	10,800		"	"	"	"	"	10,000	7,500		25
"	"	"	10,800		"	"	"	"	"	10,000	7,500		26
"	"	"	10,800		"	"	"	"	"	10,000	7,500		27
"	"	"	10,800		"	"	"	"	"	10,000	7,500		28
"	"	"	10,800		"	"	"	"	"	10,000	7,500		29
"	"	"	10,800		1914	"	"	"	"	10,000	7,500		30
"	"	"	10,800		"	"	"	"	"	10,000	7,500		31
"	"	"	10,800		1915	"	"	"	"	10,000	7,500		32
"	"	"	10,800		1916	"	"	"	"	10,000	7,500		33
"	"	"	11,300		1924	"	"	"	"	10,000	7,500		34
"	"	"	11,300		"	"	"	"	"	10,000	7,500		35
"	"	"	10,800		1918	"	"	"	"	10,000	7,500		36
"	"	"	10,800		"	"	"	"	"	10,000	7,500		37
"	"	"	11,300		1922	"	"	"	"	10,000	7,500		38
"	"	"	11,300		"	"	"	"	"	10,000	7,500		39
"	"	"	11,300		1923	"	"	"	"	10,000	7,500		40
"	"	"	11,300	197,400	1924	"	"	"	"	10,000	7,500	135,000	41
R. Prop.	85	25	10,000		1929	"	12,000	60	75	10,000	7,500		42
"	"	"	10,000		"	"	"	"	"	10,000	7,500		43
"	"	"	10,000		1930	"	"	"	"	10,000	7,500		44
"	"	"	10,000		1929	"	"	"	"	10,000	7,500		45
"	"	"	10,000		"	"	"	"	"	10,000	7,500		46
"	"	"	10,000	60,000	1930	"	"	"	"	10,000	7,500	45,000	47
R. Francis	120	67	16,000		1954	"	6,900	60	80	15,000	12,000		48
"	"	"	16,000		"	"	"	"	"	15,000	12,000		49
"	"	"	16,000	48,000	1957	"	"	"	"	15,000	12,000	36,000	50
R. Francis	115	68	16,000		1941	"	13,800	25	80	15,000	12,000		51
"	"	"	16,000		"	"	"	"	"	15,000	12,000		52
"	"	"	16,000		1946	"	"	"	"	15,000	12,000		53
"	"	"	16,000	64,000	1949	"	"	60	"	15,000	12,000	48,000	54
R.	200	22	400	400	1921	"	2,300	60	80	300	250	250	55
R. Francis	180	208	35,300		1937	"	6,600	60	95	26,315	25,000		56
"	"	"	35,300	70,600	"	"	"	"	"	26,315	25,000	50,000	57
R.	250	23	600	600	1927	"	2,200	60	80	450	365	365	58
R.	400	114	1,400		1900	"	10,500	66⅔	80	938*	750		59
"	"	"	1,400		"	"	"	"	"	938*	750		60
"	"	"	2,000	4,800	1903	"	"	"	"	1,250*	1,000	2,500	61
R.	272	208	1,000		1894	"	5,000	66⅔	80*	625*	500		62
"	"	"	1,000		"	"	"	"	"	625*	500		63
"	"	"	1,000		1898	"	"	"	"	625*	500		64
"	"	"	1,400	4,400	1900	"	5,600	"	"	750*	600	2,100	65
R.	212	60	2,225	2,225	1908	"	5,500	66⅔	80*	1,875*	1,500	1,500	66
R.	161	32	1,100		1899	"	2,000	66⅔	80*	938*	750		67
"	"	"	1,100	2,200	"	"	"	"	"	938*	750	1,500	68

SECTION 1. Hydro Electric Equipment as at December 31, 1961 — Continued

No.		General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Quebec—Continued								
	Quebec Power Company—Concluded:								
1	St. Raphael	Sud R.	...	2 N.E. St. Raphael	238	228	233	200	1921
2									"
3									"
4	Seven Falls	Ste. Anne R.	...	St. Fereol	420	410	420	470	1915
5									"
6									"
7									"
	Quebec Provincial Government (Dept. of Natural Resources):								
8	Pont Arnault	Chicoutimi R.	...	Chicoutimi	56	56	56	1,200	1923
9									"
10									"
	Rivière-du-Loup, Cité de: ²								
11	Rivière-du-Loup	R.-du-Loup	...	Rivière-du-Loup	104	96	100	325	1929
12									1942
	Rolland Paper Co. Ltd.:								
13	Mont Rolland	North R.	...	½ S. W. Mont Rolland	..	..	100	128	1903
14									"
15									1912
16									1903
	Saguenay Electric Company:								
17	Belle Rivière	La Belle R.	...	6½ W. Herbertville Sta.	89	87	88	95	1927
18	Chute-Gameau	Chicoutimi R.	...	3 S. Chicoutimi	35	33	34	1,200	1928
	Saguenay Power Co. Ltd.:								
19	Isle Maligne	L. St. John	Saguenay R.	Isle Maligne	110	90	108	40,000	1925
20									"
21									1926
22									1937
23									1925
24									"
25									"
26									"
27									"
28									1928
29									1926
30									1925
	Ste Agathe des Monts:								
31	Ste. Agathe	Norde R.	...	...	50	..	..	..	1925
32									"
	St. Lawrence Corporation Ltd.:								
33	East Angus Mill	St. Francis R.	...	1 E. East Angus	35	30	33	407	..
	St. Raymond Paper Limited:								
34	Desbiens Mill	Matabetchouan R.	...	4 N. Desbiens	79	69	73	215	1922
	The Shawinigan Water and Power Co.:								
35	Beaumont	St. Maurice R.	...	7 N. La Tuque	135	111	125	16,520	1958
36									"
37									"
38									"
39									1959
40									"
41	Grand'Mère	St. Maurice R.	...	Grand'Mère	87	58	83	22,330	1915
42									"
43									"
44									1916
45									"
46									"
47									"
48									1921
49									1922
									1930

² See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators								No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
R.	600	232	1,500		1921	..	2,200	60	80	1,062*	850		1
"	"	"	1,500		"	..	"	"	"	1,062*	850		2
"	"	"	1,500	4,500	"	..	"	"	"	1,062*	850	2,550	3
R. Francis	630	410	6,000		1915	..	6,600	63	80	5,850*	4,680		4
"	"	"	6,000		"	..	"	"	"	5,850*	4,680		5
"	"	"	6,000		"	..	"	"	"	5,850*	4,680		6
"	"	"	6,000	24,000	"	..	"	"	"	5,850*	4,680	18,720	7
R. Francis	277	56	2,500		..	..	2,400	60	90	1,875	1,686		8
"	"	"	2,500		..	..	"	"	"	1,875	1,687		9
"	"	"	2,500	7,500	..	..	"	"	"	1,875	1,687	5,060	10
R. Prop.	600	100	960		1929	..	2,300	60	80	800	640		11
"	400	"	1,800	2,760	1949	..	2,400	"	"	1,500	1,200	1,840	12
R. Francis	514	100	250		1912	..	550	60	80	375	300		13
"	170	"	350		"	..	"	"	"	100	80		14
"	300	"	950		1947	..	"	"	"	219	175		15
"	400	"	225	1,775	1943	..	"	"	"	200	160	715	16
R. Francis	600	..	800	800	1928	76	7,200	60	90	750	675	675	17
R. Prop. F.	180	30	3,500	3,500	1928	440	13,200	60	90	2,800	2,520	2,520	18
R. Francis	112	110	45,000		1925	31,100	13,200	60	80	35,000	28,000		19
"	"	"	45,000		"	"	"	"	"	35,000	28,000		20
"	"	"	45,000		1926	"	"	"	"	35,000	28,000		21
"	"	"	45,000		1937	"	"	"	"	35,000	28,000		22
"	"	"	45,000		1925	"	"	"	"	35,000	28,000		23
"	"	"	45,000		"	"	"	"	"	35,000	28,000		24
"	"	"	45,000		"	"	"	"	"	35,000	28,000		25
"	"	"	45,000		"	"	"	"	"	35,000	28,000		26
"	"	"	45,000		1928	"	"	"	"	35,000	28,000		27
"	"	"	45,000		1926	"	"	"	"	35,000	28,000		28
"	"	"	45,000		1925	"	"	"	"	35,000	28,000		29
"	"	"	45,000	540,000	"	"	"	"	"	35,000	28,000	336,000	30
..	..	50	400	400	..	..	..	60	80	250	200		31
"	"	"	"	"	..	..	..	"	"	250	200	400	32
R.	..	35	1,400	1,400	1910	..	2,300	60	80	940	760	760	33
R.	600	86	1,410	1,410	1922	..	2,300	60	85	1,175	1,000	1,000	34
Francis	120	124	55,000		1958	38,630	13,800	60	90	45,000	40,500		35
"	"	"	55,000		"	"	"	"	"	45,000	40,500		36
"	"	"	55,000		"	"	"	"	"	45,000	40,500		37
"	"	"	55,000		"	"	"	"	"	45,000	40,500		38
"	"	"	55,000		1959	"	"	"	"	45,000	40,500		39
"	"	"	55,000	330,000	"	"	"	"	"	45,000	40,500	243,000	40
Francis	120	80	22,000		1915	11,400	6,600	60	85	18,500	15,700		41
"	"	"	22,000		"	"	"	"	"	18,500	15,700		42
"	"	"	22,000		"	"	"	"	"	18,500	15,700		43
"	"	"	22,000		1916	"	"	"	"	18,500	15,700		44
"	"	"	22,000		"	"	"	"	"	18,500	15,700		45
"	"	"	22,000		"	"	"	"	90	20,000	18,000		46
"	"	84	22,000		1921	"	"	"	85	18,500	15,700		47
"	"	"	22,000		1922	"	"	"	"	18,500	15,700		48
"	"	80	24,500	200,500	1930	19,480	"	"	80	25,000	20,000	147,900	49

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators								No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ¹ lbs.-ft. ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
R. Prop.	120	63	36,000		1924	28,150	6,600	60	75	33,000	24,700		1
"	"	"	32,000		"	"	"	"	"	33,000	24,700		2
"	"	"	36,000		"	"	"	"	"	33,000	24,700		3
"	"	"	36,000		"	"	"	"	"	33,000	24,700		4
"	"	60	32,000	172,000	1931	27,000	"	"	"	33,000	24,700	123,500	5
R. Francis	112	114	44,500		1940	34,530	11,000	60	90	40,000	36,000		6
"	"	"	44,500		"	"	"	"	"	40,000	36,000		7
"	"	"	44,500		"	"	"	"	"	40,000	36,000		8
"	"	"	44,500		"	"	"	"	"	40,000	36,000		9
"	"	"	44,500		1943	"	"	"	"	40,000	36,000		10
"	"	"	49,000	271,500	1955	"	"	"	"	40,000	36,000	216,000	11
R. Francis	109	108	44,500		1955	34,800	11,000	60	85	36,000	30,600		12
"	"	"	40,000		1943	34,217	"	"	"	36,000	30,600		13
"	"	"	40,000		1934	"	"	"	"	36,000	30,600		14
"	"	"	40,000		"	"	"	"	"	36,000	30,600		15
"	"	"	40,000		"	"	"	"	"	36,000	30,600		16
"	"	"	40,000	244,500	"	"	"	"	"	36,000	30,600	183,600	17
R. Prop.	360	64	4,000	4,000	1927	190	2,000/2,400	60	75	4,000	3,000	3,000	18
R. Francis	180	147	11,100		1926	2,400	6,600	60	75	10,000	7,500		19
"	"	"	11,100	22,200	"	"	"	"	"	10,000	7,500	15,000	20
R. Francis	225	145	18,500		1911	4,600	6,600	60	80	17,500	14,000		21
"	"	"	18,500		"	"	"	"	"	17,500	14,000		22
"	"	"	18,500		1913	5,470	"	"	"	18,750	15,000		23
"	"	"	18,500		1914	4,800	"	"	"	18,750	15,000		24
"	"	"	18,500		"	3,762	"	"	"	18,750	15,000		25
"	138	146	43,000		1922	34,000	11,000	"	75	40,000	30,000		26
"	"	"	43,000		1928	38,000	"	"	"	40,000	30,000		27
"	"	"	43,000	221,500	1929	"	"	"	"	40,000	30,000	163,000	28
R. Francis	120	145	65,000		1948	56,323	13,800	60	80	62,500	50,000		29
"	"	"	65,000		1949	"	"	"	"	62,500	50,000		30
"	"	"	65,000	195,000	"	"	"	"	"	62,500	50,000	150,000	31
R. Francis	129	160	65,000		1951	45,928	13,800	60	90	53,000	47,700		32
"	"	"	65,000		"	"	"	"	"	53,000	47,700		33
"	"	"	65,000		"	"	"	"	"	53,000	47,700		34
"	"	"	65,000		1950	"	"	"	"	53,000	47,700		35
"	"	"	65,000		"	"	"	"	"	53,000	47,700		36
"	"	"	65,000	390,000	1955	"	"	"	"	53,000	47,700	286,200	37
R. Prop.	120	13	1,000	1,000	1928	..	2,300	60	80*	725	600	600	38
R. Francis	450	40	475	475	1957	..	2,300	60	90*	375	330	330	39
R. Francis	300	38	1,450		1917	..	2,400	60	95*	1,000	950		40
"	"	"	1,450	2,900	"	"	"	"	"	1,000	950	1,900	41
R. Francis	180	30	1,500		1911	..	6,600	60	80*	1,344*	1,075		42
"	"	"	1,500	3,000	"	"	"	"	"	1,344*	1,075	2,150	43
R. Francis	225	30	1,700		1926	..	2,200	60	85*	1,300	1,100		44
"	"	"	1,700		"	"	"	"	"	1,300	1,100		45
"	"	29	1,700	5,100	"	"	2,400	"	"	1,300	1,100	3,300	46
R. Prop.	150	28	2,900		1928	..	2,300	60	90*	2,500	2,250		47
"	"	"	2,900	5,800	"	"	"	"	"	2,500	2,250	4,500	48
R. Prop.	180	22	1,100		1959 R	..	2,400	60	80	900	720		49
"	"	"	1,100	2,200	1960 R	..	"	"	"	900	720	1,440	50
R. Francis	257	273	42,000	42,000	1957	..	13,800	60	80	40,000	32,000	32,000	51
R.	600	175	2,000	2,000	1929	..	4,000	60	80	2,000	1,600	1,600	52
R. Francis	100	30	3,200		1918	..	4,000	60	80	3,125	2,500		53
"	"	"	3,200		"	"	"	"	"	3,125	2,500		54
R. Prop.	138	"	6,000		1925	..	"	"	"	6,000	4,800		55
"	"	"	6,000	18,400	"	"	"	"	"	6,000	4,800	14,600	56
R. Francis	150	50	5,600		1925	..	6,600	60	80	6,000	4,800		57
"	"	"	5,600		"	"	"	"	"	6,000	4,800		58
"	"	"	5,600		"	"	"	"	"	6,000	4,800		59
"	"	"	5,600		"	"	"	"	"	6,000	4,800		60
"	"	"	5,600		"	"	"	"	"	6,000	4,800		61
"	"	"	5,600	33,600	"	"	"	"	"	6,000	4,800	28,800	62

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Quebec - Concluded								
	Southern Canada Power Co. Ltd. - Concluded:								
1	Sherbrooke	Magog R.	...	Sherbrooke	..	..	..	..	1910
2									"
3									"
	Tadoussac, Service de L'Électricité:								
4	Moulin à Baude	R. Moulin à Baude	St. Lawrence	2½ W. Tadoussac	165	165	165	..	1942
5									1954
6	Total name plate rating for plants not listed .....	...	...	...	...	...	...	...	...
7	Total name plate rating in the province of Quebec .....	...	...	...	...	...	...	...	...
	Ontario								
	Abitibi Power and Paper Co. Ltd.: ¹								
8	Iroquois Falls	Abitibi R.	...	Iroquois Falls	43	30	43	5,300	1949R
9									"
10									1949
11									"
12									"
13									"
14									"
15									1949R
16									"
17									"
18									"
19									"
20									"
21									"
22	Island Falls	Abitibi R.	...	4 S. Cochrane	65	47	62	6,100	1924
23									"
24									1925
25									"
26	Smooth Rock	Mattagami R.	...	Smooth Rock Falls	52	34	49	1,600	1916
27									"
28	Sturgeon Falls	Sturgeon R.	...	Sturgeon Falls	40	28	39	2,000	1951R
29									1902
30									1922
31									"
32									"
33	Twin Falls	Abitibi L.	Abitibi R.	4½ Iroquois Falls	58	49	55	4,400	1921
34									"
35									"
36									"
37									1925
	Almonte Public Utilities Commission:								
38	Almonte	Mississippi R.	...	Almonte	30	28	29	650	1928
39									1925
	Bancroft Public Utilities Comm.:								
40	Bancroft	York R.	...	Bancroft	17	16	16	..	1930
41									1949
	Bracebridge Water Light & Power Commission:								
42	Bracebridge Falls	Muskoka R.	...	Bracebridge	36	..	..	110	1937
43									1957
44	High-Falls	Muskoka R.	...	4 Bracebridge	48	..	..	..	1948
45	Wilson's Falls	Muskoka R.	...	1 Bracebridge	34	..	..	..	1908
	Campbellford Public Utilities Commission:								
46	Crow Bay	Trent C.	...	2 N. Campbellford	25	21	21	..	1909
47									1911
	Canadian Celanese Ltd.: ¹								
48	Grand River	Grand R.	...	Brantford	18	15	17	200	1912
49									"

¹ See Steam Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 -- Continued

Main turbines					Main generators								No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
R.	360	57	1,333		1910	..	2,300	60	80	1,240	995		1
"	"	"	1,333		"	..	"	"	"	1,240	995		2
"	"	"	1,333	3,999	"	..	"	"	"	1,240	995	2,985	3
L. Francis	900	165	300		1942	..	2,300	60	80	219	175		4
"	"	"	600	900	1954	..	2,400	"	"	500	400	575	5
...	...	...	...	3,026	...	...	...	...	...	2,394	...	1,925	6
...	...	...	...	12,451,749	...	...	...	...	...	10,494,008	...	8,968,029	7
R.	240	43	2,200		1949 R	..	12,500	25	80	1,500	1,200		8
"	"	"	1,800		"	..	"	"	"	1,500	1,200		9
"	"	"	2,500		1949	..	"	60	90	2,250	2,025		10
"	"	"	2,500		"	..	"	"	"	2,250	2,025		11
"	"	"	2,500		"	..	"	"	"	2,250	2,025		12
"	"	"	2,500		"	..	"	"	"	2,250	2,025		13
"	"	"	2,500		"	..	"	"	"	2,250	2,025		14
"	"	"	2,200		1949 R	..	600	"	80	1,600	1,280		15
"	"	"	2,200		"	..	"	"	"	1,600	1,280		16
"	"	"	2,200		"	..	"	"	"	1,600	1,280		17
"	"	"	2,200		"	..	"	"	"	1,600	1,280		18
"	"	"	2,200		"	..	"	"	"	1,600	1,280		19
"	"	"	2,200		"	..	"	"	"	1,600	1,280		20
"	"	"	1,800	31,500	"	..	"	"	"	1,600	1,280	21,485	21
L. Francis	175	65	12,000		1924	..	12,500	25	80	12,000	9,600		22
"	"	"	12,000		"	..	"	"	"	12,000	9,600		23
"	128	"	12,000		1925	..	"	60	"	12,000	9,600		24
"	"	"	12,000	48,000	"	..	"	"	"	12,000	9,600	38,400	25
L. Francis	112	45	4,500		1916	..	600	60	94	3,125	2,960		26
"	"	"	4,500	9,000	"	..	"	"	"	3,125	2,960	5,920	27
R.	180	41	2,500		1902	..	2,200	60	80	2,000	1,600		28
"	240	35	1,090		1942 R	..	"	"	"	1,875	1,500		29
"	"	"	2,000		"	..	"	"	"	1,875	1,500		30
"	"	"	2,000		"	..	"	"	"	1,875	1,500		31
"	"	"	2,000	9,590	1952 R	..	"	"	100	1,575	1,575	7,675	32
L. Francis	128	58	6,000		1921	..	13,200	60	90	4,500	4,050		33
"	"	"	6,000		"	..	"	"	"	4,500	4,050		34
"	"	"	6,000		"	..	"	"	"	4,500	4,050		35
"	"	"	6,000		"	..	"	"	"	4,500	4,050		36
"	"	"	6,000	30,000	1925	..	"	"	"	4,500	4,050	20,250	37
..	257	..	650		1928	..	2,200	60	80	550	440		38
..	120	..	425	1,075	1924	..	"	"	"	500	400	840	39
..	257	..	185		1930	..	2,300	60	80	156	125		40
..	"	"	185	370	1949	..	"	"	"	156	125	250	41
..	400	35	300		1902	..	4,160	60	80	375	300		42
..	"	"	300	600	1905	..	"	"	"	375	300	600	43
..	360	44	1,200	1,200	1948	..	6,900	60	80	1,000	800	800	44
R.	300	34	750	750	1908	..	4,160	60	80	750	600	600	45
R.	150	..	1,470		1908	..	2,400	60	90	1,100*	990		46
"	120	..	1,900	3,370	1912	..	"	"	"	1,000*	900	1,890	47
L. Francis	82	18	275		1938	9	600	60	80	438	350	350	48
"	"	"	275	550	"	"	"	"	"	"	"	"	49

SECTION 1. Hydro Electric Equipment as at December 31, 1961 — Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Ontario — Continued								
1	Canadian General Electric Co. Ltd.: ^{1,2}								
2	Nassau.....	Otonabee R.	...	3 N. Peterborough	18	10	16	..	1902
3									1926
4	Canadian Niagara Power Co. Ltd.:								
5	Rankine.....	Niagara R.	...	1 S. Niagara Falls	128	124	126	3,765	1904
6									1905
7									1906
8									1910
9									1913
10									1916
11									1917
12									1924
13									
14									
15	Chapleau Electric Light & Power Co. Ltd.: ¹								
16	Chapleau.....	Chapleau R.	...	Chapleau	37	32	34	..	1929
17	Edward Deagle:								
18	Deagle Power.....	Canoe L.	...	9 N. Blind R.	75	70	73	..	1938
19	Dryden Paper Co. Ltd.: ¹								
20	Dryden.....	Wabigoon R.	...	Dryden	46	42	45	450	1912
21	Eagle River.....	Eagle R.	...	Eagle R.	35	31	34	600	1928
22	McKenzie Falls.....	Eagle R.	...	1½ N. Eagle R.	27	24	26	600	1938
23	Wainwright Falls.....	Wabigoon R.	...	4 N.W. Dryden	28	..	28	415	1921
24	Eaganville Hydro Electric Comm.:								
25	Eaganville.....	Bonnechere R.	...	Eaganville	19	17	18	..	1939
26									1943
27									1949
28	The E.B. Eddy Company: ¹								
29	Eddy.....	Ottawa R.	...	Ottawa	40	30	38	4,000	1909
30									1912
31	Fenelon Falls Water Light & Power Comm.: ¹								
32	Fenelon Falls.....	Fenelon F.R.	...	Fenelon Falls	24	23	23	..	1904
33	Gananoque Electric Light & Water Supply Co. Ltd.: ²								
34	Brewers Mills.....	Rideau C.	...	3 N. Joyceville	18	14	16	200	1940
35									1941
36	Gananoque.....	Gananoque R.	St. Lawrence R.	Gananoque	22	18	20	250	1939
37	Jones Falls.....	Rideau C.	...	3 W. Morton	62	58	60	200	1948
38									1950
39	Kingston Mills.....	Rideau C.	...	5 N.E. Kingston	46	44	45	210	1914
40	Washburn.....	Rideau C.	...	2 N. Joyceville	12	9	11	200	1926
41	Great Lakes Power Co. Ltd.:								
42	Gartshore Falls.....	Montreal R.	...	81 N. Sault Ste. Marie	..	..	115	1,428	1958
43	High Falls.....	Michipicoten R.	...	16 S.E. Wawa	149	144	147	2,512	1930
44									1950
45	Hollingsworth Falls.....	Michipicoten R.	...	10 S.E. Hawk Jct.	115	60	108	2,060	1959
46	Lower Falls.....	Montreal R.	...	78 N. Sault Ste. Marie	185	175	180	1,428	1938
47									1941
48	McPhail Falls.....	Michipicoten R.	...	10 S.E. Wawa	51	47	48	2,458	1954
49									1954

¹ See Steam Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators								No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
J. Francis	120	16	2,000		1922	..	6,600	60	80	1,875	1,500		1
"	138	"	700		1902	..	"	"	"	600	480		2
"	"	"	700	3,400	"	..	"	"	"	600	480	2,460	3
J. Francis	250	133	10,250		1904	3,220	12,000	25	85	8,800	7,500		4
"	"	"	10,250		"	"	"	"	"	8,800	7,500		5
"	"	"	10,250		1905	"	"	"	"	8,800	7,500		6
"	"	"	10,250		1906	"	"	"	"	8,800	7,500		7
"	"	"	10,250		"	"	"	"	"	8,800	7,500		8
"	"	"	12,500		1910	2,750	"	"	90	10,400	9,375		9
"	"	"	12,500		1913	"	"	"	"	10,400	9,375		10
"	"	"	10,750		1916	"	"	"	"	10,400	9,375		11
"	"	"	10,750		"	"	"	"	"	10,400	9,375		12
"	"	"	10,750		1917	"	"	"	"	10,400	9,375		13
"	"	"	12,000	120,500	1924	"	"	"	"	11,400	10,300	94,675	14
R.	600	37	300		1929	..	2,300	60	80	250	200		15
"	"	"	300	600	"	..	"	"	"	250	200	400	16
J. Francis	450	75	750	750	1938	..	2,300	60	80*	562*	450	450	17
J. Francis	360	45	950		1912	..	600	60	80	750	600		18
"	"	"	950	1,900	"	..	"	"	"	750	600	1,200	19
J. Francis	164	37	2,000	2,000	1928	..	2,300	60	80	2,200	1,760	1,760	20
Prop. K.	240	26	1,485	1,485	1938	..	2,400	60	80	1,400	1,120	1,120	21
Prop.	225	29	1,400	1,400	1928	..	11,000	60	80	1,250	1,000	1,000	22
J. Francis	225	..	..		1939	..	2,200	60	80	75	60		23
Prop.	450	..	..		1943	..	"	"	"	93	75		24
J. Francis	257	..	..	..	1949	..	"	"	"	156	125	260	25
J. Francis	164	38	4,650		1909	..	2,200	60	85	3,500	3,000		26
"	"	"	4,650		"	..	"	"	"	3,500	3,000		27
"	"	"	4,650	13,950	1912	..	"	"	80	4,150	3,320	9,320	28
..	200	..	600	600	1904	..	550	60	80	625*	500	500	29
J. Francis	150	20	400		1940	..	550	60	80	312	300		30
"	"	"	400		"	..	"	"	"	312	300		31
"	"	"	400	1,200	"	..	"	"	"	312	300	900	32
J. Francis	100	20	800	800	1939	..	550	60	90	667	600	600	33
J. Francis	720	65	250		1948	..	2,300	60	80	225	180		34
"	514	58	1,037		"	..	"	"	"	1,000	800		35
"	"	"	1,037		1950	..	"	"	"	1,000	800		36
"	400	"	1,500	3,824	"	..	"	"	"	1,000	800	2,580	37
J. Francis	..	45	850		1914	..	2,400	60	80	800	640		38
"	..	"	1,150	2,000	1926	..	"	"	"	1,000	800	1,440	39
J. Francis	180	14	350	350	1944	..	2,300	60	80	187	150	150	40
Prop. K.	240	112	30,300	30,300	1958	4,500	11,500	60	90	22,222	20,000	20,000	41
J. Francis	240	147	11,000		1930	1,200	11,000	60	90	7,500	6,750		42
"	"	"	11,000		"	1,700	"	"	"	7,500	6,750		43
"	"	"	13,200	35,200	1950	1,900	"	"	"	10,750	9,675	23,175	44
Prop. K.	200	108	30,300	30,300	1959	7,500	11,500	60	90	22,222	20,000	20,000	45
J. Francis	257	185	10,900		1938	1,700	11,000	60	90	9,000	8,100		46
"	"	"	10,900	21,800	1941	"	"	"	"	9,000	8,100	16,200	47
Prop. K.	200	48	7,500		1954	1,100	11,500	60	100	5,000	5,000		48
"	"	"	7,500	15,000	"	1,100	"	"	"	5,000	5,000	10,000	49

* See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 — Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Ontario — Continued								
	Great Lakes Power Co. Ltd. — Concluded:								
1	Sault Ste. Marie	L. Superior	St. Mary's R.	Sault Ste. Marie	..	..	19	17,987	1918
2									"
3									"
4									"
5									"
6									"
7									"
8									"
9									"
10									"
11									"
12									"
13									"
14									"
15									"
16									"
17									"
18									"
19									"
20									"
21									"
22									"
23									"
24									"
25									1921
26									"
27									"
28									1931
29	Scott Falls.....	Michipicoten R.	...	16 S.E. Wawa	75	59	70	2,512	1952
30									"
31	Upper Falls	Montreal R.	...	92 N. Sault Ste. Marie	249	..	201	1,428	1937
32									1940
33									1957
	The Huronian Co. Ltd.:								
34	Big Eddy .....	..	...	..	100	85	95	1,905	1929
35									"
36									"
37	High Falls .....	..	...	..	85	80	83	1,905	1905
38									1912
39									"
40									1905
41									1918
42	Nairn.....	..	...	..	28	22	25	1,905	1917
43									"
44									"
45	Wabageshik .....	..	...	..	70	68	69	1,035	1912
46									1935
	Hydro-Electric Power Commission of Ontario: ^{1,2}								
47	Abitibi Canyon	Abitibi R.	...	62 N. Cochrane	242	230	238	9,313	1933
48									"
49									1936
50									"
51									1959
52	Aguasabon.....	Aguasabon R.	...	3 W. Terrace Bay	301	290	299	1,617	1948
53									"
54	Alexander.....	Nipigon R.	...	10 N. Nipigon	64	56	58	10,706	1930
55									1931
56									"
57									1945
58									1958
59	Auburn	Otonabee R.	...	Peterborough	18	15	17	1,185	1911
60									"
61									1912
62	Barrett Chute.....	Madawaska R.	...	4 S.W. Calabogie	156	147	154	1,772	1942
63									"
64	Big Chute	Severn R.	...	3 W. Severn Falls	58	55	58	955	1911
65									"
66									"
67									1919

¹ See Steam Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators								No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
Francis	136	19	900		1918	185	2,300	25	100	650	650		1
"	"	"	900		"	"	"	"	"	650	650		2
"	"	"	900		"	"	"	"	"	650	650		3
"	"	"	900		"	"	"	"	"	650	650		4
"	"	"	900		"	"	"	"	"	650	650		5
"	"	"	900		"	"	"	"	"	650	650		6
"	"	"	900		"	"	"	"	"	650	650		7
"	"	"	900		"	"	"	"	"	650	650		8
"	"	"	900		"	"	"	"	"	650	650		9
"	"	"	900		"	"	"	"	"	650	650		10
"	"	"	900		"	"	"	"	"	650	650		11
"	"	"	900		"	"	"	"	"	650	650		12
"	"	"	900		"	"	"	"	"	650	650		13
"	"	"	900		"	"	"	"	"	650	650		14
"	"	"	900		"	"	"	"	"	650	650		15
"	"	"	900		"	"	"	"	"	650	650		16
"	"	"	900		"	"	"	"	"	650	650		17
"	138	"	900		"	180	"	60	"	650	650		18
"	"	"	900		"	"	"	"	"	650	650		19
"	"	"	900		"	"	"	"	"	650	650		20
"	"	"	900		"	"	"	"	"	650	650		21
"	"	"	900		"	"	"	"	"	650	650		22
"	"	"	900		"	"	"	"	"	650	650		23
"	65	"	2,400		1921	2,200	"	"	"	650	650		24
"	"	"	2,400		"	"	"	"	80	1,800	1,440		25
"	"	"	2,400		"	"	"	"	"	1,800	1,440		26
Prop. K.	120	"	2,200	31,000	1931	770	2,400	25	"	1,800	1,440		27
Prop. K.	225	70	10,000	20,000	1952	1,610	12,500	60	80	2,000	1,600	21,520	28
"	"	"	10,000		"	"	"	"	"	8,500	6,800		29
Francis	277	230	12,600		1937	1,500	11,000	60	90	8,500	6,800	13,600	30
"	"	"	12,600		1940	"	"	"	"	10,000	9,000		31
"	240	"	31,000	56,200	1957	4,854	11,500	"	"	10,000	9,000		32
"	"	"			"	"	"	"	"	25,000	22,500	40,500	33
Francis	187	90	9,400		1929	2,450	6,600	25	90				34
"	"	"	9,400		"	"	"	"	"	8,000	7,200		35
"	"	"	9,400	28,200	"	"	"	"	"	8,000	7,200	21,600	36
Francis	375	85	3,550		1905	"	2,400	25	100	2,000	2,000		37
"	"	"	3,550		1912	"	"	"	"	2,000	2,000		38
"	"	"	3,550		"	"	"	"	"	2,000	2,000		39
"	150	"	7,500	21,700	1905	"	"	"	"	2,000	2,000		40
"	"	"			1918	"	"	"	"	5,550	5,550	13,550	41
Francis	100	30	2,600		1917	"	2,200	60	100				42
"	"	"	2,600		"	"	"	"	"	1,500	1,500		43
"	"	"	2,250	7,450	1919	"	"	"	"	1,500	1,500		44
Francis	300	70	2,700		1912	"	2,200	60	80	1,875	1,875	4,875	45
"	360	"	2,700	5,400	1935	"	2,300	"	80	1,875*	1,500		46
"	"	"			"	"	"	"	"	2,675	2,130	3,630	47
Francis	150	237	66,000		1933	28,760	13,800	25	85				48
"	"	"	66,000		"	"	"	"	"	48,500	41,225		49
"	"	"	66,000		1936	"	"	"	"	48,500	41,225		50
"	"	"	66,000		"	"	"	"	"	48,500	41,225		51
Francis	257	290	27,500		1959	26,000		60	90	48,000	43,200	208,100	52
"	"	"	27,500	55,000	1948	4,765	13,800	60	90	22,500	20,250		53
"	"	"			"	"	"	"	"	22,500	20,250	40,500	54
Francis	100	60	18,000		1930	11,053	12,000	60	85	15,000	12,750		55
"	"	"	18,000		1931	"	"	"	"	15,000	12,750		56
"	"	"	18,000		"	"	"	"	"	15,000	12,750		57
Prop.	150	58	19,000		1945	5,750	"	"	90	15,000	13,500		58
"	"	"	19,000	92,000	1958	5,300	"	"	"	15,000	13,500	65,250	59
Francis	150	18	950		1911	400	2,400	60	100	625	625		60
"	"	"	950		"	"	"	"	"	625	625		61
"	"	"	950	2,850	1912	"	"	"	"	625	625	1,875	62
Francis	164	150	28,000		1942	13,707	13,200	60	85	24,000	20,400		63
"	"	"	28,000	56,000	"	"	"	"	"	24,000	20,400	40,800	64
Francis	300	56	1,300		1911	124	2,300	60	80	1,125	900		65
"	"	"	1,300		"	"	"	"	"	1,125	900		66
"	"	"	1,300		"	"	"	"	"	1,125	900		67
"	"	"	1,700	5,600	1919	"	"	"	"	1,600	1,280	3,980	68

² See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Ontario - Continued								
	Hydro-Electric Power Commission of Ontario: ^{1,2} - Continued:								
1	Big Eddy	Muskoka R.	...	7 W. Bala	42	33	36	1,561	1941
2									"
3	Bingham Chute	South R.	...	2 W. Powassan	50	37	48	205	1923
4									1924
5	Calabogie	Madawaska R.	...	Calabogie	32	19	29	1,556	1917
6									"
7	Cameron Falls	Nipigon R.	...	11 N. Nipigon	78	69	74	10,945	1921
8									1920
9									1924
10									"
11									1925
12									1926
13									1958
14	Caribou Falls	English R.	...	24 N.W. Minaki	62	52	58	10,637	1958
15									"
16									"
17	Chats Falls (Ontario Half)	Ottawa R.	...	8 N.E. Arnprior	54	42	52	14,162	1931
18									"
19									"
20									"
21	Chenault	Ottawa R.	...	8 N. Renfrew	39	29	37	29,312	1950
22									"
23									1951
24									"
25									"
26									"
27									"
28									"
29	Coniston	Wanapitei R.	...	2 S.E. Coniston	57	52	55	957	1905
30									1907
31									1915
32	Crystal Falls	Sturgeon R.	...	7 N.E. Sturgeon Falls	38	27	34	2,586	1921
33									"
34									"
35									"
36	Decew Falls # 1	Welland C.	12 Mile Crk.	3 S. St. Catharines	273	261	266	886	1913
37									1901
38									1902
39									1904
40									"
41									1905
42									"
43									1911
44									"
45	Decew Falls # 2	Welland C.	12 Mile Crk.	3 S. St. Catharines	291	277	283	5,145	1943
46									1947
47	Des Joachims	Ottawa R.	...	36 N.W. Pembroke	136	118	133	24,764	1950
48									"
49									"
50									"
51									"
52									"
53									"
54									1951
55	Ear Falls	English R.	...	Ear Falls	40	28	36	5,767	1930
56									1937
57									1940
58									1948
59	Elliott Chute	South R.	...	2 S.W. Powassan	45	37	42	231	1929
60	Eugenia	Beaver R.	...	1 N. Eugenia	554	542	552	61	1915
61									"
62									1920
63	Fountain Falls	Montreal R.	...	10 S. Cobalt	29	25	28	..	1914
64									"
65	Frankford	Trent R.	...	1 S. Frankford	20	14	17	..	1913
66									"
67									"
68									"
69	Galetta	Mississippi R.	...	Galetta	26	19	24	..	1907
70									"

¹ See Steam Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators									No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating							
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.		
R. Prop. F.	200	38	5,280		1941	700	6,600	60	85	4,500	3,825		1	
"	"	"	5,280	10,560	"	"	"	"	"	4,500	3,825	7,650	2	
R. Francis	450	47	650		1923	14	2,200	60	90	450	405		3	
"	"	"	650	1,300	1924	"	"	"	"	450	405	810	4	
R. Francis	164	30	3,000		1938 R	..	6,600	60	80	2,500	2,000		5	
"	"	"	3,000	6,000	"	"	"	"	"	2,500	2,000	4,000	6	
R. Francis	120	72	12,500		1921	10,500	12,000	60	90	10,600	9,540		7	
"	"	"	12,500		1920	"	"	"	"	10,600	9,540		8	
"	"	"	12,500		1924	8,010	"	"	80	10,600	8,480		9	
"	"	"	12,500		"	"	"	"	"	10,600	8,480		10	
"	"	"	12,500		1925	"	"	"	"	10,600	8,480		11	
"	"	"	12,500		1926	"	"	"	"	10,600	8,480		12	
R. Prop. F.	164	73	25,000	100,000	1958	9,000	"	"	95	20,000	19,000	72,000	13	
R. Prop.	113	58	34,000		1958	28,040	13,800	60	90	28,500	25,650		14	
"	"	"	34,000		"	"	"	"	"	28,500	25,650		15	
"	"	"	34,000	102,000	"	"	"	"	"	28,500	25,650	76,950	16	
R. Prop.	120	53	28,000		1931	20,000	13,800	60	95	23,500	22,325		17	
"	"	"	28,000		"	"	"	"	"	23,500	22,325		18	
"	"	"	28,000		"	"	"	"	"	23,500	22,325		19	
"	"	"	28,000	112,000	"	"	"	"	"	23,500	22,325	89,300	20	
R. Prop. F.	95	40	21,000		1950	24,373	13,800	60	90	17,000	15,300		21	
"	"	"	21,000		"	"	"	"	"	17,000	15,300		22	
"	"	"	21,000		1951	"	"	"	"	17,000	15,300		23	
"	"	"	21,000		"	"	"	"	"	17,000	15,300		24	
"	"	"	21,000		"	"	"	"	"	17,000	15,300		25	
"	"	"	21,000		"	"	"	"	"	17,000	15,300		26	
"	"	"	21,000		"	"	"	"	"	17,000	15,300		27	
"	"	"	21,000	168,000	"	"	"	"	"	17,000	15,300	122,400	28	
R. Francis	300	53	1,200		1905	75	2,300	60	90	800	720		29	
"	"	"	1,600		1907	"	"	"	"	1,250	1,125		30	
"	257	"	3,500	6,300	1915	420	"	"	"	2,500	2,250	4,095	31	
R. Francis	138	33	2,600		1921	750	2,300	60	95	2,125	2,020		32	
"	"	"	2,600		"	"	"	"	"	2,125	2,020		33	
"	"	"	2,600		"	"	"	"	"	2,125	2,020		34	
"	"	"	2,600	10,400	"	"	"	"	"	2,125	2,020	8,080	35	
R. Francis	360	..	3,000		1913	..	2,380	60	90	2,780	2,500		36	
"	257	..	3,000		1901	..	"	"	"	2,220	2,000		37	
"	"	..	3,000		1902	..	"	"	"	2,220	2,000		38	
"	"	..	6,000		1904	..	"	"	"	5,890	5,300		39	
"	"	..	6,000		"	..	"	"	"	5,555	5,000		40	
"	"	..	6,000		1905	..	"	"	"	5,890	5,300		41	
"	"	..	6,000		"	..	"	"	"	6,555	5,900		42	
"	"	..	6,000		"	..	"	"	"	6,220	5,600		43	
"	"	..	6,000	45,000	"	..	"	"	"	5,330	4,800	38,400	44	
R. Francis	171	280	75,000		1955 R	26,000	13,800	60	90	64,000	57,600		45	
"	"	"	75,000	150,000	1954 R	"	"	"	"	64,000	57,600	115,200	46	
R. Francis	106	130	62,000		1950	64,185	13,800	60	90	50,000	45,000		47	
"	"	"	62,000		"	"	"	"	"	50,000	45,000		48	
"	"	"	62,000		"	"	"	"	"	50,000	45,000		49	
"	"	"	62,000		"	"	"	"	"	50,000	45,000		50	
"	"	"	62,000		"	"	"	"	"	50,000	45,000		51	
"	"	"	62,000		"	"	"	"	"	50,000	45,000		52	
"	"	"	62,000		"	"	"	"	"	50,000	45,000		53	
"	"	"	62,000	496,000	1951	"	"	"	"	50,000	45,000	360,000	54	
R. Prop.	180	36	5,000		1930	1,473	6,600	60	80	5,000	4,000		55	
"	"	"	5,000		1937	1,500	"	"	85	4,500	3,825		56	
R. Prop. K.	150	"	7,500		1940	3,206	"	"	90	6,000	5,400		57	
"	"	"	7,500	25,000	1948	3,300	"	"	"	6,000	5,400	18,625	58	
R. Prop.	327	..	1,800	1,800	1929	224	2,300	60	80	1,800	1,440	1,440	59	
R. Francis	900	550	2,250		1915	12	4,000	60	85	1,410	1,200		60	
"	"	"	2,250		"	"	"	"	"	1,410	1,200		61	
"	720	"	4,000	8,500	1920	38	"	"	"	2,820	2,400	4,800	62	
R. Francis	150	30	1,500		1914	..	11,000	60	80	1,250	1,000		63	
"	"	"	1,500	3,000	"	..	"	"	"	1,250	1,000	2,000	64	
R. Francis	113	18	1,200		1913	920	7,000	60	80	813	650		65	
"	"	"	1,200		"	"	"	"	"	813	650		66	
"	"	"	1,200		"	"	"	"	"	813	650		67	
"	"	"	1,200	4,800	"	"	"	"	"	813	650	2,600	68	
R. Francis	240	22	700		1907	..	2,300	60	90	445	400		69	
"	"	"	700	1,400	"	..	"	"	"	445	400	800	70	

² See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 — Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Ontario — Continued								
	Hydro-Electric Power Commission of Ontario ^{1,2} —Continued:								
1	George W. Rayner	Mississagi R.	...	14 N.E. Thessalon	220	197	214	2,488	1950
2									"
3	Hagues Reach	Trent R.	...	2 S. Campbellford	25	20	23	..	1925
4									"
5									"
6	Hanna Chute	South Muskoka R.	...	2 S. Bracebridge	33	29	31	437	1926
7	Hanover	Saugeen R.	...	Hanover	..	..	12	..	1900
8									"
9	Heely Falls	Trent R.	...	4 N. Campbellford	77	69	74	1,530	1913
10									1914
11									1919
12	High Falls	Mississippi R.	...	13 N.E. Sharbot Lake	87	80	83	225	1920
13									"
14									"
15									"
16									"
17	Hound Chute	Montreal R.	...	6 S. Cobalt	36	31	34	1,798	1910
18									"
19									"
20									1911
21	Indian Chute	Montreal R.	...	10 N.W. Elk Lake	47	39	46	720	1923
22									1924
23	Kakabeka Falls.....	Kaministiquia R.	...	Kakabeka Falls	196	190	195	1,370	1906
24									"
25									1911
26									1914
27	Lakefield	Otonabee R.	...	Lakefield	16	6	14	..	1928
28	Lower Sturgeon	Mattagami R.	...	25 N. Timmins	44	35	43	1,977	1923
29									"
30	McVittie	Wanapitei R.	...	3 N. Burwash	41	33	40	778	1912
31									"
32	Manitou Falls	English R.	...	11 W. Ear Falls	59	44	54	8,349	1956
33									"
34									"
35									"
36									1958
37	Matabitchuan	Matabitchuan R.	...	21 S.E. Cobalt	316	308	314	372	1910
38									"
39									"
40									"
41	Merrickville	Rideau R.	...	Merrickville	27	23	25	..	1915
42									1919
43	Meyersburg	Trent R.	...	4 S. Campbellford	36	29	33	..	1924
44									"
45									"
46	Nipissing	South R.	...	2 E. Nipissing	95	89	93	231	1921 R
47									1924 R
48	Ontario Power	Niagara R.	...	Niagara Falls	217	200	205	7,324	1905
49									"
50									"
51									1906
52									1908
53									"
54									"
55									1909
56									1910
57									1911
58									"
59									1913
60									"
61									"
62									1914
63	Otter Rapids	Abitibi R.	...	93 N. Cochrane	113	96	111	1,807	1961
64									"

¹ See Steam Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines						Main generators								No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating							
		Feet head	h.p.	Total plant h.p.			Voltage	Freq.	Power factor	kva.	kw.	Total plant kw.		
								(cycles)	(per cent)					
R. Francis	212	210	29,000		1950	7,480	13,800	60	90	23,500	21,150		1	
"	"	"	29,000	58,000	"	"	"	"	"	23,500	21,150	42,300	2	
R. Prop.	180	23	1,600		1925	311	6,600	60	80	1,400	1,120		3	
"	"	"	1,600		"	"	"	"	"	1,400	1,120		4	
"	"	"	1,600	4,800	"	"	"	"	"	1,400	1,120	3,360	5	
R. Prop.	225	30	1,550	1,550	1926	162	6,600	60	80	1,400	1,120	1,120	6	
R. Francis	225	..	175		1900	..	4,000	60	80	190	150		7	
"	"	"	175	350	"	..	"	"	"	190	150	300	8	
R. Francis	240	73	5,600		1913	1,600	6,600	60	100	3,750	3,750		9	
"	"	"	5,600		1914	"	"	"	"	3,750	3,750		10	
"	"	"	5,600	16,800	1919	"	"	"	80	3,750	3,000	10,500	11	
R. Francis	300	82	1,240		1920	142	4,400	60	80	875	700		12	
"	"	"	1,240		"	34	"	"	100	350	350		13	
"	"	"	1,240	3,720	"	"	"	"	"	350	350		14	
"	"	"	"	"	"	"	"	"	"	350	350		15	
"	"	"	"	"	"	"	"	"	"	350	350	2,100	16	
R. Francis	150	..	1,335		1910	..	11,000	60	80	875	700		17	
"	"	"	1,335		"	"	"	"	"	875	700		18	
"	"	"	1,335		"	"	"	"	"	875	700		19	
"	"	"	1,335	5,340	1911	..	"	"	"	875	700	2,800	20	
R. Francis	300	45	2,250		1923	..	2,300	60	90	1,800	1,620		21	
"	"	"	2,250	4,500	1924	..	"	"	"	1,800	1,620	3,240	22	
R. Francis	277	178	7,500		1924 R	..	4,000	60	85	6,350	5,400		23	
"	"	"	7,500		"	..	"	"	"	6,350	5,400		24	
"	"	"	7,500		1928 R	..	"	"	"	6,350	5,400		25	
"	257	"	12,500	35,000	"	..	"	"	"	9,375	7,970	24,170	26	
R. Prop.	112	16	3,100	3,100	1928	..	2,400	60	80	2,500	2,000	2,000	27	
R. Francis	136	42	4,000		1923	1,000	2,300	25	80	4,000	3,200		28	
"	"	"	4,000	8,000	"	"	"	"	"	4,000	3,200	6,400	29	
R. Francis	257	42	1,800		1912	130	2,300	60	90	1,250	1,125		30	
"	"	"	1,800	3,600	"	"	"	"	"	1,250	1,125	2,250	31	
R. Prop. F.	150	54	18,500		1956	8,054	13,800	60	90	16,000	14,400		32	
"	"	"	18,500		"	"	"	"	"	16,000	14,400		33	
"	"	"	18,500		"	"	"	"	"	16,000	14,400		34	
"	"	"	18,500		"	"	"	"	"	16,000	14,400		35	
"	"	"	18,500	92,500	1958	"	"	"	"	16,000	14,400	72,000	36	
R. Francis	600	305	3,300		1910	..	2,400	60	90	1,875	1,690		37	
"	"	"	3,300		"	..	"	"	"	1,875	1,690		38	
"	"	"	3,300		"	..	"	"	"	1,875	1,690		39	
"	"	"	3,300	13,200	"	..	"	"	"	1,875	1,690	6,760	40	
R. Francis	240	27	750		1915	..	600	60	80	550	440		41	
"	200	"	650	1,400	1929 R	..	"	"	"	500	400	840	42	
R. Francis	150	32	2,200		1924	842	6,600	60	80	2,000	1,600		43	
"	"	"	2,200		"	"	"	"	"	2,000	1,600		44	
"	"	"	2,200	6,600	"	"	"	"	"	2,000	1,600	4,800	45	
R. Francis	450	..	1,250		1909	47	2,300	60	75	1,400	1,050		46	
"	"	"	1,250	2,500	"	34	"	"	80	1,250	1,000	2,050	47	
R. Francis	188	..	11,700		1905	..	12,000	25	90	8,330	7,500		48	
"	"	"	11,700		"	..	"	"	"	8,330	7,500		49	
"	"	"	11,700		"	..	"	"	"	8,330	7,500		50	
"	"	"	11,700		1906	..	"	"	"	9,740	8,770		51	
"	"	"	11,700		1908	..	"	"	"	9,740	8,770		52	
"	"	"	11,700		"	..	"	"	"	9,740	8,770		53	
"	"	"	11,700		1909	..	"	"	"	9,740	8,770		54	
"	"	"	13,400		1910	..	"	"	"	9,750	8,775		55	
"	"	"	13,400		1911	..	"	"	"	9,750	8,775		56	
"	"	"	13,400		"	..	"	"	"	9,750	8,775		57	
"	"	"	13,400		1913	..	"	"	"	9,750	8,775		58	
"	"	"	13,400		"	..	"	"	"	9,750	8,775		59	
"	"	"	13,400		"	..	"	"	"	9,750	8,775		60	
"	"	"	13,400		1914	..	"	"	"	9,750	8,775		61	
"	"	"	20,000	195,700	1919	..	"	"	"	15,000	13,500	132,505	62	
R. Prop. F.	138	107	60,000		1961	40,000	13,800	60	95	46,000	43,700		63	
"	"	"	60,000	120,000	"	"	"	"	"	46,000	43,700	87,400	64	

² See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Ontario—Continued								
	Hydro-Electric Power Commission of Ontario ^{1,2} —Continued:								
1	Otto Holden	Ottawa R.	...	4 N. Mattawa	86	60	80	21,723	1952
2									"
3									"
4									"
5									"
6									"
7									"
8									1953
9	Pine Portage	Nipigon R.	...	21 N. Nipigon	108	100	105	11,108	1950
10									"
11									1954
12									"
13	Ragged Rapids	Muskoka R.	...	4 W. Bala	42	34	38	1,459	1938
14									"
15	Ranney Falls.....	Trent R.	...	1 S. Campbellford	51	37	48	..	1922
16									"
17									1926
18	Rat Rapids.....	Albany R.	...	72 N. Savant Lake Station	18	14	17	184	1946 F
19									1935
20	Red Rock Falls	Mississagi R.	...	5 N. Iron Bridge	97	80	94	3,495	1960
21									1961
22	Robert H. Saunders—St. Lawrence ...	St. Lawrence R.	...	Cornwall	88	71	83	115,890	1958
23									"
24									"
25									"
26									"
27									"
28									"
29									1959
30									"
31									"
32									"
33									"
34									"
35									"
36									"
37									"
38	Sandy Falls	Mattagami R.	...	6 N.W. Timmins	33	30	32	1,375	1911
39									"
40									1916
41	Seymour	Trent R.	...	1 N.E. Campbellford	25	20	22	..	1911
42									"
43									1909
44									"
45									1910
46	Sidney.....	Trent R.	...	2 N. Trenton	22	17	20	..	1911
47									"
48									"
49									"
50	Sills Island	Trent R.	...	1 N. Frankford	17	9	15	..	1926
51									"
52	Silver Falls	Kaministiquia R.	...	24 N.W. Port Arthur	362	346	360	885	1959
53	Sir Adam Beck—Niagara #1	Niagara R.	...	1 S. Queenston	314	285	291/301	13,580	1922
54									"
55									"
56									"
57									"
58									1923
59									1924
60									"
61									1925
62									"
63	Sir Adam Beck—Niagara #2	Niagara R.	...	1 S. Queenston	314	285	291/301	44,658	1930
64									1954
65									"
66									"
67									"
68									"
69									"
70									"
71									1955
72									"

¹ See Steam Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators								No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq.	Power factor	kva.	kw.	Total plant kw.	
								cycles/sec	per cent				
R. Francis	95	77	35,000		1952	51,665	13,800	60	95	27,000	25,650		1
"	"	"	35,000		"	"	"	"	"	27,000	25,650		2
"	"	"	35,000		"	"	"	"	"	27,000	25,650		3
"	"	"	33,000		"	"	"	"	"	27,000	25,650		4
"	"	"	33,000		"	"	"	"	"	27,000	25,650		5
"	"	"	33,000		"	"	"	"	"	27,000	25,650		6
"	"	"	33,000	272,000	1953	"	"	"	"	27,000	25,650	205,200	7
R. Francis	109	105	41,000		1950	40,300	13,800	60	90	33,000	29,700		9
"	"	"	41,000		"	"	"	"	"	33,000	29,700		10
"	"	"	45,000		1954	41,460	"	"	"	38,500	34,650		11
"	"	"	45,000	172,000	"	"	"	"	"	38,500	34,650	128,700	12
R. Prop. K.	200	38	5,200		1938	700	6,600	60	85	4,500	3,825		13
"	"	"	5,200	10,400	"	"	"	"	"	4,500	3,825	7,650	14
R. Francis	120	..	5,000		1922	2,500	6,600	60	80	4,500	3,600		15
"	"	..	5,000		"	"	"	"	"	4,500	3,600		16
"	360	..	1,000	11,000	1926	64	600	"	"	900	720	7,920	17
R. Francis	164	15	1,400		1946 R	650	6,600	60	80	2,000	1,600		18
R. Prop.	129	"	1,750	3,150	1935	632	2,300	"	85	1,500	1,275	2,875	19
R. Prop. F.	180	93	26,500		1960	9,500	13,800	60	90	22,500	20,250		20
"	"	"	26,500	53,000	1961	"	"	"	"	22,500	20,250	40,500	21
R. Prop. F.	95	81	75,000		1958	82,100	13,800	60	95	60,000	57,000		22
"	"	"	75,000		"	"	"	"	"	60,000	57,000		23
"	"	"	75,000		"	89,500	"	"	"	60,000	57,000		24
"	"	"	75,000		"	"	"	"	"	60,000	57,000		25
"	"	"	75,000		"	82,100	"	"	"	60,000	57,000		26
"	"	"	75,000		"	"	"	"	"	60,000	57,000		27
"	"	"	75,000		"	89,500	"	"	"	60,000	57,000		28
"	"	"	75,000		1959	"	"	"	"	60,000	57,000		29
"	"	"	75,000		"	82,100	"	"	"	60,000	57,000		30
"	"	"	75,000		"	"	"	"	"	60,000	57,000		31
"	"	"	75,000		"	89,500	"	"	"	60,000	57,000		32
"	"	"	75,000		"	"	"	"	"	60,000	57,000		33
"	"	"	75,000		"	82,100	"	"	"	60,000	57,000		34
"	"	"	75,000		"	"	"	"	"	60,000	57,000		35
"	"	"	75,000		"	89,500	"	"	"	60,000	57,000		36
"	"	"	75,000	1,200,000	"	"	"	"	"	60,000	57,000	912,000	37
R. Francis	214	32	1,200		1911	..	12,000	25	100	950	950		38
"	"	"	1,200		"	..	"	"	"	950	950		39
"	136	34	2,500	4,900	1916	..	"	"	85	1,875	1,595	3,495	40
R. Francis	150	23	1,100		1911	..	2,400	60	100	750	750		41
"	"	"	1,100		"	..	"	"	"	600	600		42
"	"	"	1,100		1909	..	"	"	"	600	600		43
"	"	"	1,100		"	..	"	"	"	600	600		44
"	"	"	1,100	5,500	1910	..	"	"	"	600	600	3,150	45
R. Francis	120	20	1,400		1911	900	6,600	60	85	936	795		46
"	"	"	1,400		"	"	"	"	"	936	795		47
"	"	"	1,400		"	"	"	"	"	936	795		48
"	"	"	1,400	5,600	"	"	"	"	"	936	795	3,180	49
R. Prop.	120	14	1,000		1926	..	6,600	60	80	1,200	960		50
"	"	"	1,000	2,000	1942 R	..	"	"	85	1,200	1,020	1,980	51
R. Francis	240	330	60,000	60,000	1959	13,900	13,800	60	90	50,000	45,000	45,000	52
R. Francis	188	305	55,000		1922	21,700	12,000	25	80	45,000	36,000		53
"	"	"	55,000		"	"	"	"	"	45,000	36,000		54
"	"	"	55,000		"	"	"	"	"	45,000	36,000		55
"	"	"	55,000		"	21,500	"	"	"	45,000	36,000		56
"	"	"	55,000		1923	"	"	"	"	45,000	36,000		57
"	"	294	58,000		1924	21,700	"	"	"	55,000	44,000		58
"	"	"	58,000		"	21,500	"	"	"	54,000	43,200		59
"	"	"	58,000		1925	"	"	"	"	54,000	43,200		60
"	"	"	58,000		"	"	13,800	60	85	55,000	46,750		61
"	"	"	58,000	565,000	1930	21,700	"	"	"	55,000	46,750	403,900	62
R. Francis	150	292	105,000		1954	45,000	13,800	60	95	80,500	76,475		63
"	"	"	105,000		"	60,285	"	"	"	80,500	76,475		64
"	"	"	105,000		"	45,000	"	"	"	80,500	76,475		65
"	"	"	105,000		"	60,285	"	"	"	80,500	76,475		66
"	"	"	105,000		"	45,000	"	"	"	80,500	76,475		67
"	"	"	105,000		"	60,285	"	"	"	80,500	76,475		68
"	"	"	105,000		"	45,000	"	"	"	80,500	76,475		69
"	"	"	105,000		1955	60,285	"	"	"	80,500	76,475		70
"	"	"	105,000		"	45,000	"	"	"	80,500	76,475		71
"	"	"	105,000		"	60,285	"	"	"	80,500	76,475		72

² See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 — Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Ontario — Continued								
1	Hydro-Electric Power Commission of Ontario ¹ — Concluded:								
2	Sir Adam Beck—Niagara #2 — Concluded.	Niagara R.	...	1 S. Queenston	314	285	291/301	44,658	1955
3									1957
4									1958
5									1957
6									1958
7	Sir Adam Beck—Niagara #2 (Pumping generating station).	Niagara R.	...	1 S. Queenston	90	36	85-60/ 75-50	..	1957
8									1958
9									1958
10									1925
11	South Falls	S. Muskoka R.	...	2 S. Bracebridge	112	103	110	454	1916
12									1925
13	Stewartville	Madawaska R.	...	7 W. Arnprior	157	146	154	1,889	1948
14									1948
15									1925
16	Stinson	Wanapitei R.	...	1 N.W. Stinson	58	51	55	..	1915
17									1914
18	Toronto Power	Niagara R.	...	Niagara Falls	142	125	134	5,912	1913
19									1912
20									1906
21									1907
22									1912
23									1929
24	Trethewey Falls	South Muskoka R.	...	4 S.E. Bracebridge	37	32	35	478	1930
25	Upper Notch	Montreal R.	...	13 S. Cobalt	47	40	45	2,064	1912
26									1913
27	Walkerton	Saugeen R.	...	2 S. Walkerton	..	..	11	..	1918
28									1913
29	Wawaitin	Mattagami R.	...	9 S.W. Timmins	130	122	127	871	1912
30									1958
31	Whitedog Falls	Winnipeg R.	...	13 N.W. Minaki	54	42	51	9,037	1912
32									1912
33									1906
34									1911
35	K.V.P. Company Limited: ¹								1916
36	Espanola	Spanish R.	Georgian B.	Espanola	70	65	67	2,231	1946
37									1906
38									1916
39									1906
40									1906
41	Lake of the Woods Milling Co. Ltd.:								1905
42	Mill A	L. of Woods	Winnipeg R.	Keewatin	20	16	20	196	1907
43	Mill C	L. of Woods	Winnipeg R.	Keewatin	20	16	20	300	1907
44									1937
45	Mattawa Light & Power:								1909
46	Papineau	Mattawa R.	...	2 Mattawa	24	18	22	..	1909
47									1909
48	National Research Council:								1909
49	Rideau Falls	Rideau R.	Ottawa R.	Ottawa	47	37	42	1,000	1909
50									1909

¹ See Steam Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators								No.		
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating								
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.			
R. Francis	150	292	105,000	1,680,000	1955	45,000	13,800	60	95	80,500	76,475	1,223,600	1		
"	"	"	105,000		"	60,285	"	"	"	80,500	76,475		2		
"	"	"	105,000		1957	45,000	"	"	"	80,500	76,475		3		
"	"	"	105,000		"	60,285	"	"	"	80,500	76,475		4		
"	"	"	105,000		1958	45,000	"	"	"	80,500	76,475		5		
"	"	"	105,000	"	"	60,285	"	"	"	80,500	76,475	6			
R. Prop. K.	92	85	46,000	276,000	1957	44,400	14,000	60	95	31,000	29,450	176,700	7		
"	"	"	46,000		"	"	"	"	"	31,000	29,450		8		
"	"	"	46,000		"	"	"	"	"	31,000	29,450		9		
"	"	"	46,000		1958	"	"	"	"	31,000	29,450		10		
"	"	"	46,000		"	"	"	"	"	31,000	29,450		11		
"	"	"	46,000	"	"	"	"	"	"	31,000	29,450	12			
R. Francis	514	107	2,200	5,400	1925	59	6,600	60	80	2,000	1,600	3,835	13		
"	720	"	1,000		1916	7	"	"	85	750	635		14		
"	514	"	2,200		1925	59	"	"	80	2,000	1,600		15		
R. Francis	164	148	28,000	84,000	1948	13,707	13,200	60	85	24,000	20,400	61,200	16		
"	"	"	28,000		"	"	"	"	"	24,000	20,400		17		
"	"	"	28,000		"	"	"	"	"	24,000	20,400		18		
R. Francis	240	"	3,500	7,000	1925	375	2,300	60	80	2,500	2,000	4,000	19		
"	"	"	3,500		"	"	"	"	"	2,500	2,000		20		
R. Francis	250	"	15,000	157,000	1915	"	12,000	25	90	10,000	9,000	91,800	21		
"	"	"	15,000		"	"	"	"	"	10,000	9,000		22		
"	"	"	15,000		1914	"	"	"	"	10,000	9,000		23		
"	"	"	15,000		1913	"	"	"	"	10,000	9,000		24		
"	"	"	15,000		1912	"	"	"	"	10,000	9,000		25		
"	"	"	15,000		"	"	"	"	"	10,000	9,000		26		
"	"	"	15,000		"	"	"	"	"	10,000	9,000		27		
"	"	"	13,000		1906	"	"	"	"	8,000	7,200		28		
"	"	"	13,000		1907	"	"	"	"	8,000	7,200		29		
"	"	"	13,000		"	"	"	"	"	8,000	7,200		30		
"	"	"	13,000		"	"	"	"	"	8,000	7,200		31		
R. Prop.	257	35	2,300		2,300	1929	230	6,600	60	80	2,000		1,600	1,600	32
R. Francis	124	48	6,500		13,000	1948 R	3,342	12,000	60	80	6,000		4,800	9,600	33
"	"	"	6,500			1948	"	"	"	"	6,000		4,800		34
R. Francis	120	12	275	575	1923 R	"	2,300	60	80	200	160	280	35		
"	"	"	300		1913	"	"	"	"	150	120		36		
R. Francis	375	125	4,000	14,900	1918	"	12,000	25	90	3,750	3,375	11,750	37		
"	"	"	4,000		1913	"	"	"	"	3,750	3,375		38		
"	"	"	3,450		1912	"	"	"	"	2,780	2,500		39		
"	"	"	3,450		"	"	"	"	"	2,780	2,500		40		
R. Prop. F.	106	50	27,000	81,000	1958	26,000	13,800	60	90	24,000	21,600	64,800	41		
"	"	"	27,000		"	"	"	"	"	24,000	21,600		42		
"	"	"	27,000		"	"	"	"	"	24,000	21,600		43		
R. Francis	360	60	1,600	21,600	1912	"	2,300	60	80	1,550*	1,250	15,750	44		
"	"	"	1,600		"	"	"	"	"	1,550*	1,250		45		
"	"	"	1,600		"	"	"	"	"	1,550*	1,250		46		
"	"	"	1,600		1916	"	"	"	"	1,550*	1,250		47		
"	144	64	10,000		1946	"	"	"	"	9,400*	7,500		48		
"	257	60	2,300		"	"	300	DC	"	"	1,750		49		
"	"	"	2,900		1948	"	2,300	60	80	1,900*	1,500		50		
R.	200	20	360		720	1907	"	600	60	98	240		235	470	51
"	"	"	360	"		"	"	"	"	240	235	52			
R.	150	16	425	425	1907	"	550	60	98	280	275	275	53		
R. Prop. K.	257	22	830	830	1937	"	2,300	60	80	600	480	480	54		
"	"	"	"	"	"	"	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	"	"	"	"	"	"		
"	200	47	1,500	3,000	1909	"	2,300	60	80*	1,250*	1,000	2,000	55		
"	"	"	1,500		"	"	"	"	"	1,250*	1,000		56		

² See Internal Combustion Equipment Section.

SECTION 1. Hydro Electro Equipment as at December 31, 1961 — Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Ontario — Continued								
	The Ontario-Minnesota Pulp and Paper Company Limited: ¹								
1	Calm Lake	Calm L.	Seine R.	7 N.W. Flanders	84	77	82	1,200	1928
2									"
3	Fort Frances	Rainy R.	...	Fort Frances	30	20	28	4,800	1955
4									"
5									"
6									"
7									"
8									"
9									"
10									"
11	Kenora	Lake of the Woods	Winnipeg R.	W.N.W. Kenora	21	17	19	4,000	1923
12									"
13									"
14									"
15									"
16									"
17									1924
18									"
19									"
20									"
21	Norman	Lake of the Woods	Winnipeg R.	½ N. Norman	22	18	20	7,250	1925
22									"
23									"
24									"
25									"
26	Sturgeon Falls	Seine R.	...	½ N. Crilly	65	57	62	1,200	1927
27									"
	Orillia Water Light & Power Commission: ²								
28	Mathias	Muskoka R.	...	9 N.E. Gravenhurst	47	45	47	513	1950
29	Minden	Gull R.	...	1 N. Minden	71	63	70	386	1935
30									"
31	Swift Rapids	Severn R.	...	18 N. Coldwater	48	46	47	1,037	1917
32									"
33									"
	Ottawa Hydro-Electric Commission:								
34	No. 2	Ottawa R.	...	Ottawa	42	38	40	2,499	"
35									"
36									"
37	No. 4	Ottawa R.	...	Ottawa	40	36	38	3,266	1931
38									"
	Parry Sound Public Utilities Commission:								
39	Parry Sound	Seguin Basin	...	Parry Sound	35	30	35	162	1919
40									"
	Penmans Ltd.:								
41	No. 1 Mill	Nith R.	...	Paris	14	12	13	..	1913
42									"
43	Willow Street	Grand R.	...	Paris	14	10	12	..	1906
44									"
	Peterborough Hydraulic Power Co. Ltd.:								
45	Peterborough	Otonabee R.	...	Peterborough	29	22	27	2,000	1950
46									1950 R
47									"
	Port Arthur Public Utilities Commission:								
48	Current River	Current R.	L. Superior	Port Arthur	80	66	80	..	1902
49									"
50									1906

¹ See Steam Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 — Continued

Main turbines					Main generators									No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating							
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.		
R. Francis	225	82	6,500	13,000	1928	..	6,600	60	85	5,500	4,675	9,350	1	
"	"	"	6,500		"	..	"	"	"	5,500	4,675		2	
R. Prop.	200	28	2,000	16,000	1955	..	6,900	60	80	2,000	1,600	12,800	3	
"	"	"	2,000		"	..	"	"	"	2,000	1,600		4	
"	"	"	2,000		"	..	"	"	"	2,000	1,600		5	
"	"	"	2,000		"	..	"	"	"	2,000	1,600		6	
"	"	"	2,000		"	..	"	"	"	2,000	1,600		7	
"	"	"	2,000		"	..	"	"	"	2,000	1,600		8	
"	"	"	2,000		"	..	"	"	"	2,000	1,600		9	
"	"	"	2,000		"	..	"	"	"	2,000	1,600		10	
R. Francis	120	20	1,200	12,000	1923	320	2,400	60	80	1,250	1,000	11,500	11	
"	"	"	1,200		"	"	"	"	100	1,250	1,250		12	
"	"	"	1,200		"	"	"	"	"	1,250	1,250		13	
"	"	"	1,200		"	"	"	"	80	1,250	1,000		14	
"	"	"	1,200		"	"	"	"	"	1,250	1,000		15	
"	"	"	1,200		"	"	"	"	100	1,250	1,250		16	
"	"	"	1,200		1924	"	"	"	"	1,250	1,250		17	
"	"	"	1,200		"	"	"	"	80	1,250	1,000		18	
"	"	"	1,200		"	"	"	"	100	1,250	1,250		19	
"	"	"	1,200		"	"	"	"	"	1,250	1,250		20	
R. Prop.	120	20	3,400	17,000	1925	1,800	6,600	60	100	3,712	3,712	17,324	21	
"	"	"	3,400		"	"	"	"	"	3,300	3,300		22	
"	"	"	3,400		"	"	"	"	"	3,300	3,300		23	
"	"	"	3,400		"	"	"	"	"	3,712	3,712		24	
"	"	"	3,400	"	"	"	"	"	3,300	3,300	25			
R. Francis	200	62	5,000	10,000	1927	..	6,600	60	85	4,500	3,825	7,650	26	
"	"	"	5,000		"	..	"	"	"	4,500	3,825		27	
R. Prop. K.	257	47	3,770	3,770	1950	..	2,300	60	90	3,125	2,812	2,812	28	
R. Francis	277	70	2,600	5,200	1935	..	2,300	60	80	2,250	1,800	3,600	29	
"	"	"	2,600		"	..	"	"	"	2,250	1,800		30	
R. Francis	257	47	2,120	6,360	1917	..	2,300	60	80	1,500	1,200	3,600	31	
"	"	"	2,120		"	..	"	"	"	1,500	1,200		32	
"	"	"	2,120		"	..	"	"	"	1,500	1,200		33	
R. Francis	180	40	2,300	6,900	1909	..	4,000	60	90	1,625	1,462	4,386	34	
"	"	"	2,300		"	..	"	"	"	1,625	1,462		35	
"	"	"	2,300		"	..	"	"	"	1,625	1,462		36	
R. Francis	163	38	5,400	10,800	1900	..	4,000	60	90	4,400	3,960	7,920	37	
"	"	"	5,400		"	..	"	"	"	4,400	3,960		38	
R. Francis	200	35	500	1,600	1919	..	2,300	60	80	425	340	940	39	
"	257	"	1,100		"	60	"	"	"	750	600		40	
I	200	..	181	471	1913	..	550	60	88	300	263	263	41	
"	"	..	290		"	..	"	"	"	"	"		42	
I	165	..	150		1906	..	550	60	80	360	288*		288*	43
"	"	..	150	300	"	..	"	"	"	"	"	288*	44	
R. Francis	150	27	2,300	6,990	1902	..	2,240	60	100	1,500	1,500	5,125	45	
"	180	"	2,550		1920	..	2,300	"	"	1,875	1,875		46	
"	"	"	2,140		1905	..	"	"	"	1,750	1,750		47	
..	425	80	450	2,100	1902	..	2,200	60	80	438*	350	1,800	48	
..	"	"	450		"	..	"	"	"	438*	350		49	
..	400	"	1,200		1906	..	"	"	"	1,375*	1,100		50	

* See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 — Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Ontario—Concluded								
	Renfrew Hydro-Electric Commission:								
1	No. 1	Bonnechere R.	...	Renfrew	38	35	36	259	1911
2									"
3									1952
4	No. 2	Bonnechere R.	...	Renfrew	38	36	38	259	1900
5									"
	St. Lawrence Seaway Authority:								
6	Welland Ship Canal Powerhouse	Welland Canal	...	St. Catharines	187	160	185	176	1932
7									"
8									"
	South River Electric Co.:								
9	South River	South R.	...	South River	70	64	69	188	1909
10									1919
11									1940
	Spruce Falls Power & Paper Co. Ltd. ¹								
12	Smoky Falls	Mattagami R.	...	50 N. Kapuskasing	118	110	115	6,000	1928
13									"
14									"
15									1931
16	Kapuskasing	Kapuskasing R.	...	Kapuskasing	32	25	29	800	1923
	Streetsville Public Utilities Comm.:								
17	Streetsville	Credit R.	...	Streetsville	10	9	10	..	1907
18									"
	Wingham Public Utilities Comm.:								
19	Wingham	Maitland R.	...	Wingham	14	0	14	..	1903
20									"
21	Total name plate rating in province of Ontario .....	...	...	...	...	...	...	...	...
	Manitoba								
	Manitoba Hydro ^{1,2}								
22	Great Falls	Winnipeg R.	...	12 N. Lac du Bonnet	59	50	56	39,000	1923
23									"
24									1926
25									1927
26									1928
27									"
28	Kelsey	Nelson R.	...	58 E. Thompson	58	47	50	72,000	1960
29									"
30									"
31									"
32									1961
33	McArthur	Winnipeg R.	...	8 N. Lac du Bonnet	24	18	23	30,000	1954
34									"
35									"
36									"
37									1955
38									"
39									"
40									"
41	Pine Falls	Winnipeg R.	...	2 E. Pine Falls	39	32	37	30,000	1952
42									"
43									"
44									"
45									1951
46									"
47	Seven Sisters	Winnipeg R.	...	12 N. Whitemouth	63	57	61	30,000	1931
48									"
49									"
50									1949
51									1950
52									1952

¹ See Steam Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators								No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs.-ft ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
R. Francis	400	38	425		1911	..	4,160	60	80	300	240		1
"	"	"	425		"	..	"	"	"	300	240		2
"	"	"	425	1,500	1952	..	"	"	"	500	400	880	3
R. Francis	300	38	625		1900	..	4,160	60	80	400	320		4
"	"	"	825	1,450	"	..	"	"	"	600	480	800	5
R. Francis	360	160	5,000		1932	..	6,600	60	80	5,000	4,000		6
"	"	"	5,000		"	..	"	"	"	5,000	4,000		7
"	"	"	5,000	15,000	"	..	"	"	"	5,000	4,000	12,000	8
R. Francis	1,200	..	180		1909	..	4,000	60	80*	80	64		9
"	514	..	310		1931 R	..	"	"	"	200	160		10
"	600	..	380	870	1940	..	4,160	"	80	312	250	474	11
R. Francis	164	113	18,750		1928	..	6,600	60	80	16,500	13,200		12
"	"	"	18,750		"	..	"	"	"	16,500	13,200		13
"	"	"	18,750		"	..	"	"	"	16,500	13,200		14
"	"	"	18,750	75,000	1931	..	"	"	"	16,500	13,200	52,800	15
R. Francis	180	30	2,500	2,500	1923	..	2,300	60	100	2,750	2,750	2,750	16
..	75	10	60		1935	..	4,000	60	90	125	113	113	17
..	"	"	45	105	"	..	"	"	"	"	"	"	18
R	85	14	100		1903	..	2,300	60	80*	188*	150	150	19
"	"	"	100	200	"	..	"	"	"	"	"	"	20
...	...	...	...	7,884,900	...	...	...	...	...	6,299,921	...	5,716,090	21
R. Prop. F.	139	58	28,000		1923	11,000	11,000	60	90	21,000	18,900		22
"	"	"	28,000		"	"	"	"	"	21,000	18,900		23
"	"	"	28,000		1926	"	"	"	"	21,000	18,900		24
"	"	"	28,000		1927	"	"	"	"	21,000	18,900		25
"	"	"	28,000		1928	"	"	"	"	21,000	18,900		26
"	"	"	28,000	168,000	"	"	"	"	"	21,000	18,900	113,400	27
R. Prop. F.	103	50	42,000		1960	58,000	13,800	60	90	37,500	33,750		28
"	"	"	42,000		"	"	"	"	"	37,500	33,750		29
"	"	"	42,000		"	"	"	"	"	37,500	33,750		30
"	"	"	42,000		"	"	"	"	"	37,500	33,750		31
"	"	"	42,000	210,000	1961	"	"	"	"	37,500	33,750	168,750	32
R. Prop. F.	86	23	10,000		1954	7,600	6,900	60	90	8,500	7,650		33
"	"	"	10,000		"	"	"	"	"	8,500	7,650		34
"	"	"	10,000		"	"	"	"	"	8,500	7,650		35
"	"	"	10,000		"	"	"	"	"	8,500	7,650		36
"	"	"	10,000		1955	"	"	"	"	8,500	7,650		37
"	"	"	10,000		"	"	"	"	"	8,500	7,650		38
"	"	"	10,000		"	"	"	"	"	8,500	7,650		39
"	"	"	10,000	80,000	"	"	"	"	"	8,500	7,650	61,200	40
R. Prop. F.	95	37	19,000		1952	20,000	13,800	60	90	15,500	13,950		41
"	"	"	19,000		"	"	"	"	"	15,500	13,950		42
"	"	"	19,000		"	"	"	"	"	15,500	13,950		43
"	"	"	19,000		"	"	"	"	"	15,500	13,950		44
"	"	"	19,000		1951	"	"	"	"	15,500	13,950		45
"	"	"	19,000	114,000	"	"	"	"	"	15,500	13,950	83,700	46
R. Prop. F.	138	61	37,500		1931	22,000	11,000	60	85	32,500	27,625		47
"	"	"	37,500		"	"	"	"	"	32,500	27,625		48
"	"	"	37,500		"	"	"	"	"	32,500	27,625		49
"	129	"	37,500		1949	"	"	"	"	32,500	27,625		50
"	"	"	37,500		1950	"	"	"	"	32,500	27,625		51
"	"	"	37,500	225,000	1952	"	"	"	"	32,500	27,625	165,750	52

² See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 — Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Manitoba — Concluded								
	Sherritt Gordon Mines: ¹								
1	Laurie River #1.....	Laurie R.	...	42 S. Lynn Lake	55	50	55	..	1952
2									"
3	Laurie River #2	Laurie R.	...	44 S. Lynn Lake	55	51	55	..	1958
	Winnipeg Hydro Electric System: ¹								
4	Pointe du Bois	Winnipeg R. System	...	24 E.N.E. Lac du Bonnet	47	45	46	21,000	1911
5									"
6									"
7									"
8									1914
9									"
10									1911
11									1914
12									1922
13									"
14									"
15									1923
16									"
17									"
18									1925
19									"
20	Slave Falls	Winnipeg R. System	...	5 S. Pointe du Bois	31	29	30	21,000	1931
21									"
22									1936
23									"
24									1946
25									"
26									1948
27									"
28	Total name plate rating in province of Manitoba .....	...	...	...	...	...	...	...	...
	Saskatchewan								
	Churchill River Power Company Limited:								
29	Island Falls	Churchill R.	...	60 N.W. Flin Flon	65	47	58	17,500	1930
30									"
31									"
32									1937
33									1939
34									1948
35									1959
	Eldorado Mining & Refining Ltd. ² (Leased from Consolidated Mining and Smelting):								
36	Wellington Lake	Tazin R.	Charlotte R.	15 W. Uranium City	80	..	70	540	1939
37									1959
38	Waterloo Lake	Charlotte R.	...	15 W. Uranium City	65	..	63	1,100	1961
39	Total name plate rating in province of Sask. ....	...	...	...	...	...	...	...	...
	Alberta								
	Calgary Power Ltd. ^{1,2}								
40	Barrier	Kananaskis R.	...	7 S. Seebe	155	120	150	467	1947
41	Bearspaw	Bow R.	...	4 W. Bowness	50	46	48	2,882	1954
42	Cascade	Cascade C.	Cascade R.	5 E. Banff	345	325	340	308	1942
43									1957
44	Ghost	Bow R.	...	11 W. Cochrane	110	75	105	2,939	1954
45									1929
46									"
47	Horseshoe	Bow R.	...	2 E. Seebe	72	70	71	2,542	1954 R
48									1953 R
49									1955 R
50									"
51	Interlakes	Upper Kananaskis L.	Lower Kananaskis L.	45 S. Seebe	127	63	90	155	1955

¹ See Steam Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbine						Main generators							No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs.-ft ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
R. Francis	200	55	3,500		1952	..	2,300	60	90	2,750	2,475		2
R. Francis	164	55	7,000	7,000	1958	..	2,300	60	90	6,000	5,400	4,950	3
R. Francis	164	45	5,200		1911	..	6,600	60	80	3,750	3,000		4
"	"	"	5,200		"	..	"	"	"	3,750	3,000		5
"	"	"	5,200		"	..	"	"	"	3,750	3,000		6
"	138	"	6,800		1914	..	"	"	"	3,750	3,000		7
"	"	"	6,800		"	..	"	"	"	6,250	5,000		8
"	164	"	5,200		1911	..	"	"	"	6,250	5,000		9
"	138	"	6,800		1914	..	"	"	"	3,750	3,000		10
"	150	"	6,900		1922	..	"	"	"	6,250	5,000		11
"	"	"	6,900		"	..	"	"	"	6,500	5,200		12
"	"	"	6,900		"	..	"	"	"	6,500	5,200		13
"	"	"	7,300		1923	..	"	"	"	6,500	5,200		14
"	"	"	7,300		"	..	"	"	"	6,500	5,200		15
"	"	"	7,300		"	..	"	"	"	6,500	5,200		16
"	"	"	8,000		1925	..	"	"	"	6,500	5,200		17
"	"	"	8,000	105,000	"	..	"	"	"	6,500	5,200	71,600	18
R. Prop.	95	30	12,000		1931	..	6,600	60	90	10,000	9,000		19
"	"	"	12,000		"	..	"	"	"	10,000	9,000		20
"	"	"	12,000		1936	..	"	"	"	10,000	9,000		21
"	"	"	12,000		"	..	"	"	"	10,000	9,000		22
"	"	"	12,000		1946	..	"	"	"	10,000	9,000		23
"	"	"	12,000		"	..	"	"	"	10,000	9,000		24
"	"	"	12,000		"	..	"	"	"	10,000	9,000		25
"	"	"	12,000		1948	..	"	"	"	10,000	9,000		26
"	"	"	12,000	96,000	"	..	"	"	"	10,000	9,000	72,000	27
...	...	...	...	1,012,000	...	...	...	...	...	850,500	...	746,750	28
R. Prop.	164	56	16,500		1959 R	4,360	6,600	60	90	13,200	11,880		29
"	"	"	16,500		1960 R	"	"	"	"	13,200	11,880		30
"	"	"	16,500		"	"	"	"	"	13,200	11,880		31
"	150	"	19,000		1937	8,000	"	"	100	18,000	18,000		32
"	"	"	19,000		1939	"	"	"	"	18,000	18,000		33
"	"	"	19,000		1948	"	"	"	"	18,000	18,000		34
"	"	"	19,000	125,500	1959	7,600	"	"	95	18,000	17,100	106,740	35
..	300	70	3,300		1939	..	2,300	60	80	3,000	2,400		36
..	"	"	3,300	6,600	1959	..	"	"	"	3,000	2,400	4,800	37
R. Prop. K.	225	63	10,000	10,000	1961	..	6,900	60	85	8,800*	7,500	7,500	38
...	...	...	...	142,100	...	...	...	...	...	126,400	...	119,040	39
R. Francis	225	135	13,500	13,500	1947	2,072	13,200	60	85	11,250	9,560	9,560	40
R. Prop. K.	129	48	20,750	20,750	1954	15,900	13,800	60	85	18,000	15,300	15,300	41
R. Francis	300	320	23,000		1942	2,400	13,200	60	85	20,000	17,000		42
"	"	"	23,000	46,000	1957	"	"	"	"	20,000	17,000	34,000	43
R. Francis	150	92	30,000		1954	12,700	13,200	60	90	23,500	21,150		44
"	"	105	18,000		1929	5,900	"	"	85	15,000	12,750		45
"	"	"	18,000	66,000	"	"	"	"	"	15,000	12,750	46,650	46
R. Francis	225	72	7,500		1911	1,920	12,000	60	90	6,250	5,625		47
"	300	"	4,680		"	585	"	"	"	3,750	3,375		48
"	"	"	4,680		"	"	"	"	"	3,750	3,375		49
"	225	"	7,500	24,360	"	1,920	"	"	"	6,250	5,625	18,000	50
R. Francis	257	98	6,900	6,900	1955	522	4,160	60	90	5,600	5,040	5,040	51

* See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 — Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Alberts—Concluded								
	Calgary Power Ltd. ^{1,2} —Concluded:								
1	Kananaskis	Bow R.	...	Seebe	74	70	72	2,542	1913
2									"
3									1951
4	Pocaterra	Kananaskis R.	...	38 S. Seebe	220	164	210	260	1955
5	Rundle	Spray R.	Bow R.	1 W. Canmore	322	316	319	404	1951
6									1960
7	Spray	Spray R.	Rundle C.	2 S.W. Canmore	905	900	903	404	1951
8									1960
9	Three Sisters	Spray R.	Spray C.	10 S. Canmore	60	23	45	404	1951
	Northland Utilities Limited:²								
10	Jasper	Astoria R.	Athabaska R.	10 S. Jasper	485	480	484	..	1949
11									1956
12	Total name plate rating in province of Alberta .....	...	...	...	...	...	...	...	...
	British Columbia								
	Aluminum Company of Canada Ltd.:²								
13	Kemano	Nechako Reservoir	Kemano R.	51 S. Kitimat	2,590	2,575	2,585	2,205	1954
14									"
15									"
16									1956
17									1957
18									1956
19									1958
	Bralorne Pioneer Mines Ltd.:								
	Pioneer Division:								
20	#3	Hurley R.	...	2 N. Bralorne	258	..	258	..	1934
21	#4	Cadwallader Crk.	...	Pioneer	230	..	230	..	1932
	Bralorne Division:								
22	Bralorne	Cadwallader Crk.	...	Bralorne	459	..	459	..	1933
23									1934
	British Columbia Electric Company Limited:^{2,4}								
24	Alouette	Alouette L.	Stave L.	10 N. Stave Falls	171	110	145	490	1928
25	Bridge River #1	Bridge R.	Seton L.	1 W. Shalalth	1,350	1,200	1,325	1,380	1948
26									1949
27									"
28									1954
29	Bridge River #2	Bridge R.	Seton L.	1 W. Shalalth	1,355	1,205	1,330	1,200	1959
30									"
31									"
32									1960
33	Cheakamus	Cheakamus R.	Squamish R.	13 N.W. Brackendale	1,120	1,070	1,110	1,010	1957
34									"
35	Clowhom	Clowhom R.	Salmon Inlet	24 N.E. Sechelt	182	128	165	1,140	1958
36	Jordan River	Jordan R.	...	20 W. Sooke	1,150	1,150	1,150	199	1911
37									1912
38									1914
39									1931
40	Jordan River Diversion	Jordan R.	...	7½ Main Development	..	..	..	..	1928
41	La Joie	Downton L.	Bridge R.	2 W. Gold Bridge	257	140	..	690	1957
42	Lake Buntzen #1	L. Buntzen	Indian Arm	5 N. Ioco	414	398	405	660	1951
43	Lake Buntzen #2	L. Buntzen	Indian Arm	5 N. Ioco	391	380	389	...	1913
44									1914
45									1919

¹ See Steam Equipment Section.² See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators								No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating						
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
R. Francis	163	68	6,000		1913	2,000	12,000	60	80	4,250	3,400		1
"	"	"	6,000		"	"	"	"	"	4,250	3,400		2
R. Prop. F.	225	70	12,000	24,000	1951	2,100	"	"	85	11,250	9,560	16,360	3
R. Francis	240	185	18,400	18,400	1955	2,160	13,800	60	90	15,000	13,500	13,500	4
"	300	318	23,000		1951	2,436	13,200	60	85	20,000	17,000		5
"	"	317	40,000	63,000	1960	4,500	"	"	"	35,000	29,750	46,750	6
R. Francis	450	875	62,000		1951	4,310	13,200	60	85	47,500	40,400		7
"	"	"	62,000	124,000	1960	4,390	"	"	"	47,500	40,400	80,800	8
R. Prop. F.	277	50	3,600	3,600	1951	449	6,900	60	85	4,000	3,400	3,400	9
I. Pelton	450	"	700		1949	"	6,600	60	80	665	530		10
R. Francis	1,200	523	1,240	1,940	1956	"	2,400	"	"	1,125	900	1,430	11
...	...	...	...	412,450	...	...	...	...	...	338,890	...	290,790	12
I.	327	2,500	150,000		1954	16,100	13,800	60	80	122,000	97,600		13
"	"	"	150,000		"	24,325	"	"	"	122,000	97,600		14
"	"	"	150,000		"	23,700	"	"	"	122,000	97,600		15
"	"	"	150,000		1956	16,100	"	"	"	122,000	97,600		16
"	"	"	150,000		1957	23,700	"	"	"	132,000	105,600		17
"	"	"	150,000		1956	27,531	"	"	"	132,000	105,600		18
"	"	"	150,000	1,050,000	1958	23,800	"	"	"	132,000	105,600	707,200	19
R.	720	258	1,000	1,000	1934	"	6,600	60	90	750	675	675	20
I. Pelton	400	230	350	350	1932	"	460	60	80	300	240	240	21
I. Pelton	720	440	670		1933	"	460	60	80	520	415		22
"	"	"	575	1,245	1934	"	"	"	"	420	340	755	23
R.	200	126	12,500	12,500	1928	2,500	6,825	60	80	10,000	8,000	8,000	24
I.	300	1,261	69,000		1948	8,768	13,800	60	90	50,000	45,000		25
"	"	"	69,000		1949	"	"	"	"	50,000	45,000		26
"	"	"	69,000		"	"	"	"	"	50,000	45,000		27
"	"	"	69,000	276,000	1954	"	"	"	"	50,000	45,000	180,000	28
I. Pelton	300	1,264	82,000		1959	11,160	13,800	60	95	65,250	62,000		29
"	"	"	82,000		"	"	"	"	"	65,250	62,000		30
"	"	"	82,000		1960	"	"	"	"	65,250	62,000		31
"	"	"	82,000	328,000	"	"	"	"	"	65,250	62,000	248,000	32
R.	400	954	95,000		1957	8,680	13,800	60	88	80,000	70,000		33
"	"	"	95,000	190,000	"	"	"	"	"	80,000	70,000	140,000	34
R.	120	145	40,000	40,000	1958	20,800	13,800	60	95	31,580	30,000	30,000	35
I.	400	1,010	5,430		1911	"	2,300	60	80	4,000	3,200		36
"	"	"	5,430		1912	"	"	"	"	4,000	3,200		37
"	"	"	10,125		1914	"	2,200	"	100	8,000	8,000		38
"	300	"	18,000	38,985	1931	"	6,600	"	80	15,000	12,000	26,400	39
R.	400	1,010	2,250	2,250	1928	"	11,000	60	80	1,875	1,500	1,500	40
R.	200	176	30,000	30,000	1957	7,900	13,800	60	90	24,444	22,000	22,000	41
R.	240	380	70,000	70,000	1951	15,250	13,800	60	80	62,500	50,000	50,000	42
I.	200	380	13,500		1913	2,400	2,200	60	100	8,900	8,900		43
"	"	"	13,500		1914	"	"	"	"	8,900	8,900		44
"	"	"	13,500	40,500	1919	"	"	"	"	8,900	8,900	26,700	45

* See Gas Turbine Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 — Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	British Columbia — Continued								
	British Columbia Electric Company Ltd.: ^{1,4} —Concluded:								
1	Ruskin	Hayward L.	Stave R.	2 N.E. Ruskin	135	96	130	4,150	1930
2									1938
3									1950
4	Seton	Seton Crk.	Fraser R.	1 S.E. Lillooet	167	129	149	2,630	1956
5	Stave Falls	Stave L.	Hayward L.	Stave Falls	130	96	115	4,400	1912
6									"
7									1916
8									1922
9									1925
10	Wahleach	Wahleach L.	Fraser R.	3 S. Cheam View	2,035	1,970	2,015	210	1952
	British Columbia Packers Ltd.: ²								
11	Boswell Camp	Boss Crk.	...	70 N. Alert Bay	150	..	..	..	..
12	Kildonan Cold Storage	Cass Lake	...	20 S. Alberni	..	..	375	5	..
13	Wadhams	Newichy Crk.	Rivers Inlet	60 S. Ocean Falls	100	100	100	3	..
	British Columbia Power Commission: ^{2,4}								
14	Ash River	Ash R.	Great Central L.	25 Port Alberni	831	763	815	375	1959
15	Clayton Falls	Clayton Crk.	Ocean	3 Bella Coola	250	238	243	40	1961
16	John Hart	Campbell R.	...	3 W. Campbell River	411	400	405	3,205	1947
17									1948
18									1949
19									"
20									1953
21									"
22	Ladore Falls	Campbell R.	...	8 W. Campbell R.	126	76	122	3,633	1956
23									1957
24	Puntledge	Puntledge R.	...	5 W. Courtenay	359	351	352	879	1955
25	Shuswap Falls	Shuswap R.	...	8 E. Lumby	99	79	85	997	1929
26									1942
27	Spillimacheen	Spillimacheen R.	...	2 W. Spillimacheen	230	215	222	111	1955 R
28									"
29									1955
30	Strathcona	Campbell R.	...	25 W. Campbell River	151	76	140	2,306	1958
31	Whatshan	Whatshan L.	Lower Arrow L.	3 N. Needles	715	670	705	186	1951
32									"
33									1956
	Canadian Pacific Railway:								
34	Glacier Fan House	Rogers Pass Crk.	Illecillewaet	Glacier	230	230	230	153	1949
35	Albert Canyon	Moose Crk.	...	Albert Canyon	55	55	55	100	1940
	Consolidated Mining and Smelting Company of Canada Limited: ^{1,2}								
36	Brilliant	Kootenay R.	...	23 W. Nelson	92	68	90	10,500	1944
37									"
38									1949
39	Corra Linn	Kootenay R.	...	9 W. Nelson	60	35	53	10,000	1932
40									"
41									"
42	Polaris Taku Mine	Bracken Crk.	Whitewater Crk.	Tulsequah	900	900	900	80	1937
43	South Slocan	Kootenay R.	...	13 W. Nelson	75	60	70	10,000	1928
44									"
45									1929
46	Upper Bonnington	Kootenay R.	...	10 W. Nelson	72	63	70	10,000	1914
47									1907
48									"
49									1916
50									1940
51									"
52	Waneta	Pend d'Oreille R.	...	12 S.E. Trail	210	185	206	11,000	1954
53									"

¹ See Steam Equipment Section.² See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators									No.
Type of runner	I.P.M.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating							
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.		
R.	120	123	47,000		1930	78,200	13,800	60	80	44,000	35,200		1	
"	"	"	47,000		1938	"	"	"	"	44,000	35,200		2	
"	"	"	47,000	141,000	1950	"	"	"	"	44,000	35,200	105,600	3	
R.	120	147	58,500	58,500	1956	28,000	13,800	60	100	42,000	42,000	42,000	4	
R.	225	110	13,000		1925 R	3,675	4,400	60	80	13,125	10,500		5	
"	"	"	13,000		"	"	"	"	"	13,125	10,500		6	
"	"	"	13,000		"	"	"	"	"	13,125	10,500		7	
"	"	"	13,000		"	"	"	"	"	13,125	10,500		8	
"	"	113	15,000	67,000	1925	"	"	"	"	13,125	10,500	52,500	9	
I.	360	1,880	82,000	82,000	1952	10,240	13,800	60	80	75,000	60,000	60,000	10	
I. Pelton	..	150*	10	10	1955	..	110	60	80*	10*	8	8	11	
I.	1,200	375*	150	150	1945	..	440	60	80	200	160	160	12	
..	..	100	30	30	..	..	120/208	60	80*	25*	20	20	13
R. Francis	514	735	35,000	35,000	1959	1,400	13,800	60	90	28,000	25,200	25,200	14	
R. Francis	900	238	1,050	1,050	1961	17	2,400	60	80	780	702	702	15	
R. Francis	327	390	28,000		1947	2,888	13,800	60	80	25,000	20,000		16	
"	"	"	28,000		1948	"	"	"	"	25,000	20,000		17	
"	"	"	28,000		1949	"	"	"	"	25,000	20,000		18	
"	"	"	28,000		"	"	"	"	"	25,000	20,000		19	
"	"	"	28,000		1953	"	"	"	"	25,000	20,000		20	
"	"	"	28,000	168,000	"	"	"	"	"	25,000	20,000	120,000	21	
R. Francis	138	122	35,000		1956	16,000	13,800	60	90	30,000	27,000		22	
"	"	"	35,000	70,000	1957	"	"	"	"	30,000	27,000	54,000	23	
R. Francis	277	340	35,000	35,000	1955	5,400	13,800	60	90	30,000	27,000	27,000	24	
R. Francis	200	72	3,800		1929	..	2,300	60	80	3,000	2,400		25	
"	257	82	4,000	7,800	1942	400	"	"	"	3,500	2,800	5,200	26	
R. Francis	600	207	1,200		1955	38	4,160	60	85	1,125	956		27	
"	"	"	1,200		"	"	"	"	"	1,125	956		28	
"	"	"	3,000	5,400	"	49	"	"	80	2,750	2,200	4,112	29	
R. Francis	138	140	42,000	42,000	1958	25,000	13,800	60	90	37,500	33,750	33,750	30	
R. Francis	600	690	16,500		1951	300	6,900	60	90	12,500	11,250		31	
"	"	"	16,500		"	"	"	"	"	12,500	11,250		32	
"	"	"	16,500	49,500	1956	"	"	"	"	12,500	11,250	33,750	33	
I. Pelton	720	240	33	33	1949	..	550	60	80	19	15	15	34	
I. Pelton	1,400	..	15	15	1952	..	110	DC	...	...	8	8	35
R. Francis	100	90	37,000		1944	..	13,200	60	85	32,000	27,200		36	
"	"	"	37,000		"	"	"	"	"	32,000	27,200		37	
"	"	"	37,000	111,000	1949	..	"	"	"	32,000	27,200	81,600	38	
R. Francis	86	53	19,000		1932	..	7,200	60	90	15,000	13,500		39	
"	"	"	19,000		"	..	"	"	"	15,000	13,500		40	
"	"	"	19,000	57,000	"	..	"	"	"	15,000	13,500	40,500	41	
I.	1,200	900	750	750	1937	..	480	60	80	625	500	500	42	
R. Francis	100	70	25,000		1928	..	7,200	60	90	17,500	15,750		43	
"	"	"	25,000		"	..	"	"	"	17,500	15,750		44	
"	"	"	25,000	75,000	1929	..	"	"	"	17,500	15,750	47,250	45	
R. Francis	180	70	9,000		1914	..	2,300	60	90	7,500	6,750		46	
"	"	"	8,000		1907	..	"	"	"	5,625	5,062		47	
"	"	"	8,000		"	..	"	"	"	5,625	5,062		48	
"	"	"	9,000		1916	..	"	"	"	7,500	6,750		49	
"	"	"	25,000		1940	..	7,200	"	"	17,500	15,750		50	
"	"	"	25,000	84,000	"	..	"	"	"	17,500	15,750	55,125	51	
R. Francis	120	210	120,000		1954	..	13,800	60	80	90,000	72,000		52	
"	"	"	120,000	240,000	"	..	"	"	"	90,000	72,000	144,000	53	

* See Gas Turbine Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	British Columbia - Concluded								
	Crown Zellerbach Canada Limited: ¹								
1	Ocean Falls	Link L.	Cousins Inlet	S. Ocean Falls	161	127	150	774	1917
2									"
3									1932 R
4									1923
	East Kootenay Power Co. Ltd.:								
5	Aberfeldie	Bull River	...	14 N.E. Wardner	280	268	276	1,080	1922
6									"
7	Elko Plant	Elk R.	...	1½ S.E. Elko	206	198	200	2,044	1924
8									"
	Howe Sound Company - Britannia Division:								
9	Britannia Beach	Britannia Crk.	...	Britannia Beach	1,835	1,820	1,835	700	1916
10									"
11									1917
	Kaslo, Village of:								
12	Kaslo	Kaslo Crk.	...	Kaslo	100	95	98	..	1931
	MacMillan Bloedel and Powell River Ltd.: ¹								
13	Powell River	Powell L.	Malaspina Straits	Powell River	177	145	167	3,000	..
14									..
15									..
16									..
17	Stillwater	Lois L.	Malaspina Straits	¼ Stillwater	439	350	417	865	1939
18									1948
	Nelson, City of:								
19	City of Nelson	Kootenay R.	...	10 W. Nelson	75	65	70	800	1907
20									1910
21									1929
22									1950
	Northern British Columbia Power Co. Ltd.: ²								
23	Barney's Gulch (Stewart)	Barney's Gulch Crk.	Bear R.	2 N. Stewart	920	920	920	..	1926
24	Falls River	Falls R.	Ecstal R.	44½ S.E. Prince Rupert	210	188	207	138	1930
25									1960
26	Shawatlans	Woodward L.	Shawatlans R.	5 N.E. Prince Rupert	243	227	240	58	1955
	Rayonier Canada (B.C.) Ltd.: ¹								
27	Port Alice Division	Victoria L.	...	Port Alice	..	..	425	62	1953
28	Woodfibre	Henrietta L.	...	Woodfibre	..	..	1,060	32	1947
	Revelstoke, City of: ²								
29	Revelstoke	Illecillewaet R.	...	1 E. Revelstoke	66	48	56	..	1915
30	Walter Hardman Hydro Plant	Cranberry Crk.	Columbia R.	16 S. Revelstoke	915	900	915	..	1960
	West Kootenay Power and Light Company Limited:								
31	Lower Bonnington	Kootenay R.	...	11 W. Nelson	66	53	65	9,000	1925
32									"
33									1926
34	Goat River	Goat R.	...	5 E. Creston	70	65	69	200	1933
35									1934
36									1949
37	Total name plate rating in province of B.C. ....	...	...	...	...	...	...	...	...

¹ See Steam Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Continued

Main turbines					Main generators									No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating							
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.		
R. Francis	225	143	2,100		1917	..	2,300	60	80	2,150	1,720		1	
"	"	"	2,100		"	..	"	"	"	2,150	1,720		2	
"	360	158	6,300		1918	..	"	"	"	5,250	4,200		3	
"	400	"	6,300	16,800	1923	..	"	"	"	5,250	4,200	11,840	4	
R. Francis	600	275	3,650		1922	..	2,200	60	100	2,500	2,500		5	
"	"	"	3,650	7,300	"	..	"	"	"	2,500	2,500	5,000	6	
R. Francis	360	190	7,500		1924	..	6,600	60	80	6,000	4,800		7	
"	"	"	7,500	15,000	"	..	"	"	"	6,000	4,800	9,600	8	
I. Pelton	720	1,835	3,750		1916	..	6,600	60	80	2,500	2,000		9	
"	"	"	3,750		"	..	"	"	"	2,500	2,000		10	
"	"	760	3,750	11,250	1917	..	"	"	"	2,500	2,000	6,000	11	
R. Francis	900	98	300	300	1931	..	2,300	60	85	250	212	212	12	
R. Francis	250	157	13,500		1926	..	2,300	50	100	12,000	12,000		13	
"	375	147	3,600		1911	..	"	"	"	3,750	3,750		14	
"	"	"	3,000		"	..	"	"	"	2,800	2,800		15	
"	"	"	3,000	23,100	"	..	"	"	"	2,800	2,800	21,350	16	
R. Francis	333	..	25,000		1930	..	6,600	50	100	18,000	18,000		17	
"	"	..	25,000	50,000	1948	..	"	"	"	18,000	18,000	36,000	18	
R. Francis	180	60	1,670		1907	..	12,000	60	100	750	750		19	
"	"	"	1,900		1910	..	"	"	80	1,250	1,000		20	
"	240	70	3,000		1929	..	"	"	"	2,650	2,120		21	
"	164	"	6,750	13,320	1950	..	"	"	"	6,000	4,800	8,670	22	
I. Pelton	900	900	100	100	1926	..	4,160	60	80	120	96	96	23	
R. Francis	450	248	6,000		1930	50	6,600	60	80	6,000	4,800		24	
"	600	"	6,000	12,000	1960	85	"	"	"	6,000	4,800	9,600	25	
R. Francis	600	218	2,140	2,140	1955	50	4,160	60	80	1,650	1,320	1,320	26	
I. Pelton	900	425	3,200	3,200	1953	..	6,900	60	80	2,500	2,000	2,000	27	
I. Pelton	514	920	3,650	3,650	1947	..	4,160	60	80	2,812	2,250	2,250	28	
R. Francis	360	72	1,400	1,400	1949	..	2,400/4,160	60	80	1,125	900	900	29	
I.	600	770	5,800	5,800	1960	..	4,330	60	80	5,000	4,000	4,000	30	
R. Francis	100	70	20,000		1925	..	7,200	60	90	17,500	15,750		31	
"	"	"	20,000		"	..	"	"	"	17,500	15,750		32	
"	"	"	20,000	60,000	1926	..	"	"	"	17,500	15,750	47,250	33	
R. Francis	720	69	250		1933	..	2,300	60	90	225	200		34	
"	600	"	800		1934	..	"	"	80	600	480		35	
"	"	"	800	1,850	1949	..	"	"	"	600	480	1,160	36	
...	...	...	...	3,638,278	...	...	...	...	...	2,987,305	...	2,541,718	37

³ See Internal Combustion Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 — Concluded

No.	Name of plant	General plant data			Main turbines				
		Water supply	Water outlet if different from source	Location or distance from nearest town (miles)	Operating head in feet			Average annual flow c.f.s.	Year placed in service
					Max.	Min.	Norm.		
	Yukon								
	Northern Canada Power Commission: ^{1,2}								
1	Mayo River	Mayo R.	...	5 N. Mayo Landing	121	115	119	493	1952
2									1957
3	Whitehorse Rapids	Yukon R.	...	2 S. Whitehorse	61	61	61	1,500	1958
4									"
	Yukon Consolidated Gold Corporation, Limited:								
5	North Fork	Klondike R.	...	27 E. Dawson City	..	..	220	..	1911
6									"
7									1935
	Yukon Hydro Co. Ltd.:								
8	McIntyre Creek	McIntyre Crk.	...	3 W. Whitehorse	208	200	202	24	1955
9	Porter Creek	Porter Crk.	McIntyre Crk.	4 W. Whitehorse	420	420	420	15	1949
10									1952
11	Total name plate rating in Yukon .....	...	...	...	...	...	...	...	...
	Northwest Territories								
	Consolidated Mining and Smelting Co.: ²								
12	Bluefish Lake	Yellowknife R.	...	20 Yellowknife	110	108	109	440	1941
	Northern Canada Power Commission: ^{1,2}								
13	Snare Falls	Snare R.	...	90 N.W. Yellowknife	65	61	63	950	1960
14	Snare Rapids	Snare R.	...	90 N.W. Yellowknife	65	60	63	1,190	1948
15	Total name plate rating in Northwest Territories .....	...	...	...	...	...	...	...	...
16	Total name plate rating of all Hydro-Electric equipment in Canada .....	...	...	...	...	...	...	...	...

¹ See Steam Equipment Section.

SECTION 1. Hydro Electric Equipment as at December 31, 1961 - Concluded

Main turbines					Main generators									No.
Type of runner	r.p.m.	Name plate rating			Year placed in service	WR ² lbs-ft ² (000)	Name plate rating							
		Feet head	h.p.	Total plant h.p.			Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.		
R. Francis	450	110	3,000	6,000	1952	100	6,900	60	85	3,000	2,550	4,950	1	
"	"	"	3,000		1957	110	"	"	80	3,000	2,400		2	
R. Prop. K.	300	61	7,500	15,000	1958	710	6,900	60	85	6,700	5,695	11,390	3	
"	"	"	7,500		"	"	"	"	"	6,700	5,695		4	
R. Francis	514	220	5,000	15,000	1941	..	2,300	60	90	4,000	3,600	10,050	5	
"	"	"	5,000		1922	..	"	"	"	3,000	2,700		6	
"	"	"	5,000		1935	..	"	"	80	4,690	3,750		7	
"	"	"	"		"	"	"	"	"	"	"		"	
R. Francis	1,200	200	800	800	1955	..	2,400	60	80	812	650	650	8	
I.	250	420	400	1,340	1949	..	2,300	60	80	375	300	1,000	9	
"	720	400	940		1952	..	"	"	"	875	700		10	
...	...	...	...	38,140	...	...	...	...	...	33,152	...	28,040	11
R. Francis	360	110	4,700	4,700	1941	..	2,300	60	80	4,200	3,360	3,360	12	
R. Prop. K.	225	63	9,200	9,200	1960	960	6,900	60	100	7,000	7,000	7,000	13	
R. Francis	128	56	8,350	8,350	1948	5,000	6,900	60	100	7,000	7,000	7,000	14	
...	...	...	...	22,250	...	...	...	...	...	18,200	...	17,360	15
...	...	...	...	26,409,605	...	...	...	...	...	21,831,837	...	19,018,807	16

² See Internal Combustion Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961

No.	General plant data			Boilers				Prime movers	
	Name of plant	Location	Year placed in service	Steam conditions		Rated steam prod. M lb. per hr.	Fuel and method of firing	Cooling water source	Year placed in service
				PSIG	°F.				
Newfoundland									
	Anglo-Newfoundland Development Company Limited: ¹								
1	Grand Falls	Grand Falls	1931	450	650	150	O	River	1931
2			"	"	"	150	O		"
3			"	"	"	150	O		
4			1958	"	"	250	O		
Newfoundland Light and Power Co., ^{1,2}									
5	St. John's	St. John's	1956	410	750	110	O	Sea	1956
6			1960	850	900	190	O		1960
Tilt Cove Power Corp.:									
7	Tilt Cove	Tilt Cove	1960	420	740	40	O	Sea	1960
8			"	"	"	40	O		
9	Total name plate rating in province of Nfld. ....	...	...	...	...	...	...	...	...
Prince Edward Island									
Maritime Electric Company Limited:									
10	Charlottetown	Charlottetown	1941	250	650	40	O	Sea	1938
11			1946	400	750	60	O		1935
12			1948	"	"	75	O		1940
13			1955	"	"	100	O		1947
14			1960	"	"	105	O		1952
15									1957
16									1960
17	Total name plate rating in province of P.E.I. ....	...	...	...	...	...	...	...	...
Nova Scotia									
Bowaters Mersey Paper Co. Ltd.:									
18	Brooklyn.....	Brooklyn	1929	420	540	100	O	Lake	1943
19			"	"	"	100	O		
20			"	"	"	100	O, WR		
Canada Electric Co. Ltd.:									
21	Harrison Lake	Maccan	1949	600	815	175	C (P)	Lake	1949
22			1939	260	600	90	C (P)		1931
23			1931	"	"	90	C (P)		1926
24									1929
Dominion Steel & Coal Corporation Limited (Sydney Works):									
25	No. 3 Boilers	Sydney	1937	475	750	200	BG, C (P)	Sea	1937
26			"	"	"	200	BG, C (P)		1919
27			1942	"	"	200	CG, C (P)		"
28			1961	"	"	250	BG, C, O		"
29									1943
Moirs Limited: ¹									
30	Halifax	Halifax	1947	150	365	10	O	Lake	1910
31			1915	"	"	4	C		
32			"	"	"	4	C		
Nova Scotia Light & Power Co. Ltd., ¹									
33	Water Street.....	Halifax	1944	600	800	110	CO (P)	Sea	1944
34			1951	"	"	187	CO (P)		1951
35			"	"	"	187	CO (P)		
36			1953	"	"	220	CO (P)		1953
37			1955	"	"	300	CO (P)		1955
38			1957	900	900	450	CO (CYC)		1957
39			1958	"	"	450	CO (CYC)		1959
Nova Scotia Power Commission: ^{1,2}									
40	Trenton	Trenton	1951	630	815	110	C (P)	River	1951
41			1952	"	"	110	C (P)		1952
42			1955	"	"	220	C (P)		1955
43			1959	"	"	220	C (P)		1959
Riversdale Lumber:									
44	Truro	Truro	1949	200	..	..	WR (P)	Lake	1949

¹ See Hydro-Electric Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961

Prime movers

Main generators

Type	Steam conditions		r.p.m.	Name plate rating max. cont. kw.	Total plant kw.	Year placed in service	Coolant	Name plate rating						No.
	PSIG	°F.						Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
BP	450	..	3,000	5,500	11,000	1931	Air	575	50	80	6,250	5,000	10,000	1
..	..	..	..	5,500	..	1930	..	..	..	..	6,250	5,000	..	2
Cond.	400	750	3,600	10,000	30,000	1956	Air	13,800	60	85	11,800	10,000	30,000	3
..	850	900	..	20,000	..	1960	..	..	..	80	25,000	20,000	..	4
Cond.	400	740	3,600	5,000	5,000	1960	Water	6,600	60	80	6,250	5,000	5,000	5
...	...	...	...	...	46,000	...	...	...	...	...	55,550	...	45,000	6
Cond.	150	476	3,600	1,000	..	1938	Air	2,300	60	90	1,250	1,000	..	7
..	175	..	..	1,000	..	1935	..	..	..	..	1,080	1,000	..	8
..	250	650	..	1,500	..	1940	..	..	..	..	1,875	1,500	..	9
..	400	750	..	4,000	..	1947	..	4,150	..	80	4,400	4,000	..	10
..	..	..	..	7,500	..	1952	..	..	..	90	8,335	7,500	..	11
..	..	..	..	7,500	..	1957	..	..	..	..	8,335	7,500	..	12
..	..	..	..	10,000	32,500	1960	..	13,800	..	..	11,111	10,000	32,500	13
...	...	...	...	...	32,500	...	...	...	...	...	36,386	...	32,500	14
PO & Cond.	375	540	3,600	6,000	6,000	1929	Air	2,400	60	80	6,462	5,170	5,170	15
Cond.	600	815	3,600	15,000	..	1949	Air	6,900	60	80	18,750	15,000	..	16
..	250	600	..	6,250	..	1931	..	2,200	..	..	7,812	6,250	..	17
..	..	..	..	1,500	..	1926	..	..	..	..	1,875	1,500	..	18
..	..	..	..	4,000	26,750	1929	..	..	..	..	5,000	4,000	26,750	19
BP	446	750	3,600	8,100	..	1937	Air	6,600	60	80	9,500	7,600	..	20
Cond.	160	500	..	3,000	..	1919	..	2,300	..	..	3,750	3,000	..	21
..	..	..	..	3,000	..	..	..	6,600	..	..	3,750	3,000	..	22
..	..	..	..	5,000	..	..	..	..	..	..	6,250	5,000	..	23
..	450	750	..	16,000	35,100	1943	..	..	..	85	18,823	16,000	34,600	24
BP	150	365	164	150	150	1914	Air	240	60	80	167	133	133	25
Cond.	600	800	3,600	12,500	..	1944	Air	4,100	60	100	12,500	12,500	..	26
..	..	..	..	20,000	..	1951	..	13,200	..	85	23,529	20,000	..	27
..	..	..	..	20,000	..	1953	..	..	..	..	23,529	20,000	..	28
..	..	..	..	25,000	..	1955	..	..	..	..	29,412	25,000	..	29
..	900	900	..	45,000	..	1957	Hyd.	..	..	..	52,941	45,000	..	30
..	..	..	..	45,000	167,500	1959	..	..	..	..	52,941	45,000	167,500	31
Cond.	600	800	3,600	10,000	..	1951	Air	13,800	60	80	12,500	10,000	..	32
..	..	..	..	10,000	..	1952	..	..	..	..	12,500	10,000	..	33
..	..	..	..	20,000	..	1955	..	..	..	..	25,000	20,000	..	34
..	..	..	..	20,000	60,000	1959	..	..	..	..	25,000	20,000	60,000	35
..	200	..	225	175	175	1949	Air	550	60	80*	219*	175	175	44

* See Internal Combustion Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 — Continued

No.	General plant data		Boilers					Prime movers	
	Name of plant	Location	Year placed in service	Steam conditions		Rated steam prod. M lb. per hr.	Fuel and method of firing	Cooling water source	Year placed in service
				PSIG	°F.				
Nova Scotia—Concluded									
1	Seaboard Power Corporation Limited:	Glace Bay	1932	440	660	90	C (P)	Sea	1932
2	Glace Bay								
3	"								
4	"								
5	"								
6	"								
7	Sifto Salt Limited:	Amherst	1947	225	550	15	C (S)	Lake	1947
8	Amherst (see also Sask.).....								
9	Total name plate rating in province of N.S.
New Brunswick									
10	Atlantic Sugar Refineries Ltd.:	Saint John	1947	140	401	60	O	Lake	1952
11	Charlotte St. Plant								
12	"								
13	"								
14	Bathurst Power & Paper Co. Ltd. ¹	Bathurst	1915	170	480	19	C (S)	River	1937
15	Bathurst								
16	"								
17	"								
18	"								
19	"								
20	"	1,250	850	125	BL, O				
21	S.W. Bell Ltd.	Stickney	1952	WR (D)	River	1952
22	"								
23	Fraser Companies Limited: ¹	Atholville	1956	625	710	135	C (P), WR	River	1929
24	Atholville								
25	"								
26	"								
27	"	Edmundston	1946	600	750	100	C (P), WR	River	1949
28	"								
29	Edmundston								
30	"								
31	"	Newcastle	1958	1,250	950	220	C (P)	River	1947
32	"								
33	Newcastle	Newcastle	1949	625	730	70	C (P), WR	River	1949
34	"								
35	Irving Pulp & Paper Limited:	Lancaster	..	860	800	200	O	Lake	..
36	Lancaster.....								
37	"								
38	New Brunswick Electric Power Commission: ^{1,2}	Chatham	1948	605	840	140	C (P), O	River	1948
39	Chatham								
40	Courtenay Bay	E. Saint John	1961	1,475	1,000	460	O	Sea	1961
41	Dock Street	Saint John	1929	450	700	90	C (P), O	Sea	1929
42	"								
43	Grand Lake #1	Newcastle Creek	1931	448	660	75	C (P)	Lake	1931
44	"								
45	"								
46	"								
47	Grand Lake #2.....	Newcastle Creek	1951	450	675	150	C (P)	Lake	1951
48	"								
49	"		1953	605	840	200	C (P)		1953
50	New Brunswick International Paper Co.:	Dalhousie	1929	450	640	90	C (P)	Sea	1929
51	Dalhousie								
52	"								
53	"								
54	"	Total name plate rating in province of N.B.	1954	900	..	200	C (P)	...	1929
55	"								
56	"

¹ See Hydro-Electric Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 - Continued

Type	Prime movers					Main generators							
	Steam conditions		r.p.m.	Name plate rating max. cont. kw.	Total plant kw.	Year placed in service	Coolant	Name plate rating					
	PSIG	°F.						Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.
Cond.	401	650	3,600	6,000		1932	Air	6,600	60	80	7,500	6,000	1
"	"	"	"	6,000		1937	"	"	"	"	7,500	6,000	2
"	615	750	"	18,750		1951	"	"	"	"	18,750	15,000	3
"	"	"	"	18,750		1954	"	"	"	"	18,750	15,000	4
"	"	"	"	18,750		1956	"	"	"	"	18,750	15,000	5
"	"	"	"	18,750	87,000	1959	"	"	"	"	18,750	15,000	6
BP	210	550	4,506	700	700	1947	Air	600	60	80	875	700	7
...	...	...	...	...	383,375	...	...	...	...	...	443,085	...	8
BP	135	400	5,991	500		1952	Air	125/250	DC	...	...	500	10
"	"	"	"	750		1954	"	"	DC	...	...	750	11
"	"	"	4,996	1,250		1957	"	4,160	60	80	1,250	1,000	12
"	125	"	150	500	3,000	1920	"	125/250	DC	...	...	500	13
Cond.	170	480	3,600	2,000		1916	Air	2,400	60	...	1,875	1,875	14
Cond. & PO	625	715	"	7,800		1937	"	"	"	80	7,500	6,000	15
BP & PO	"	"	"	7,650		1947	"	"	"	87	8,750	7,650	16
BP	1,225	850	"	6,540	23,990	1958	"	"	"	80	8,750	7,000	17
"	"	"	"	"	"	"	"	"	"	"	"	"	18
"	"	"	"	"	"	"	"	"	"	"	"	"	19
"	"	"	164	"	"	1952	Air	230	60	80*	234*	187	20
"	"	"	215	"	"	1956	"	"	"	"	234*	187	21
Cond.	340	575	3,600	1,000		1929	Air	600	60	80	1,250	1,000	22
BP	"	"	"	1,000		"	"	"	"	"	1,250	1,000	23
"	"	"	"	1,000		"	"	"	"	"	1,250	1,000	24
PO	"	"	"	1,000		1934	"	"	"	"	1,250	1,000	25
"	"	"	"	2,000		1947	"	"	"	"	2,500	2,000	26
BP	600	700	"	5,000	11,000	1956	"	6,900	"	"	6,250	5,000	27
PO	150	550	3,600	3,000		1949	Air	6,900	60	80	3,750	3,000	28
BP	600	700	"	3,500		1947	"	"	"	"	4,750	3,800	29
PO	1,200	950	"	12,500	19,000	1958	"	"	"	"	15,625	12,500	30
Cond.	600	700	3,600	2,000		1949	Air	6,900	60	80	2,500	2,000	31
PO	"	"	"	2,500	4,500	"	"	"	"	"	3,125	2,500	32
Cond.	275	600	"	2,500		1947	Air	600	60	80	2,500	2,000	33
BP & Ext.	865	800	"	10,000		1955	"	6,900	"	"	12,500	10,000	34
Cond. & Ext.	850	825	3,600	12,500	24,500	1960	"	"	"	"	15,625	12,500	35
Cond.	600	825	3,600	15,625		1948	Air	7,000	60	80	15,625	12,500	36
"	875	900	"	23,529	39,154	1956	Hyd.	13,800	"	85	23,529	20,000	37
Cond.	1,450	1,000	3,600	50,000	50,000	1961	Hyd.	13,800	60	85	55,882	47,500	38
Cond.	430	700	3,600	7,500		1929	Air	4,150	60	80	7,500	6,000	39
"	"	750	"	11,760	19,260	1947	"	"	"	85	11,760	10,000	40
Cond.	430	660	3,600	3,575		1931	Air	7,000	60	70	3,575	2,500	41
"	"	"	"	3,575		"	"	"	"	"	3,575	2,500	42
"	"	"	"	7,813		1936	"	"	"	80	7,813	6,250	43
"	"	700	"	9,375	24,338	1944	"	"	"	"	9,375	7,500	44
Cond.	430	675	3,600	6,250		1951	Air	7,000	60	80	6,250	5,000	45
"	"	"	"	6,250		"	"	"	"	"	6,250	5,000	46
"	600	825	"	18,750	31,250	1953	"	"	"	"	18,750	15,000	47
BP	140	420	900	750		1929	Air	540	DC	...	...	750	48
"	"	"	"	750		"	"	"	"	...	...	750	49
"	"	"	1,200	900		1957	"	"	"	...	...	2,000	50
"	"	"	"	900		"	"	"	"	...	...	2,000	51
"	450	640	3,600	6,000		1929	"	6,600	60	80	7,500	6,000	52
Cond.	"	"	"	8,000	17,300	1936	"	"	"	"	10,000	8,000	53
...	...	...	...	...	267,292	...	...	...	...	...	290,102	...	54
...	...	...	...	...	...	...	...	...	...	...	...	...	55
...	...	...	...	...	...	...	...	...	...	...	...	...	56

* See Internal Combustion Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 - Continued

No.	General plant data		Boilers					Prime movers	
	Name of plant	Location	Year placed in service	Steam conditions		Rated steam prod. M lb. per hr.	Fuel and method of firing	Cooling water source	Year placed in service
				PSIG	°F.				
	Quebec								
	Anglo-Canadian Pulp and Paper Mills Limited: ¹								
1	Quebec City	Quebec City	1927	400	550	100	O	River	..
2			..	..	..	100	O		
3			..	..	..	100	O		
4			1949	..	..	200	O		
	Bathurst Containers Ltd.:								
5	Montreal Factory	Montreal	1912	125	325	12	C, WR (H)	..	1924
6	(see also Ont.)		..	..	..	12	C, WR (H)		
	Booth Lumber Ltd.:								
7	Tee Lake	Tee Lake	1946	165	414	35	WR (CON)	River	1946
8			1942	125	..	5	.. ..		1942
9			..	..	..	5	.. ..		1958
10			..	..	..	5	.. ..	
11			..	..	..	5	.. ..	
	Canada & Dominion Sugar Co. Ltd.:								
12	Montreal	Montreal	1940	305	550	90	NG, O	River	1925
13			1960	315	575	120	NG, O		..
14			1961	..	..	120	NG, O		1947
	Canada Paper Company: ¹								
15	Windsor Mills	Windsor Mills	1955	200	450	175	C (P)	River	1930
	Canadian Celanese Limited:								
16	Drummondville	Drummondville	1933	450	670	60	O	River	1934
17			1936	..	..	60	C (S)		1949
18			1940	..	..	60	C (S)		1951
19			1948	600	720	80	O		1953
20			1951	..	..	132	O, C		
	Canadian International Paper Company: ^{1,2}								
21	Gatineau Mills	Gatineau	1953	200	437	200	.. (P)	River	1927
22			1947	..	..	200	.. (P)		..
23			1930	..	440	125	.. (P)		..
24			..	..	..	125	.. (P)		1960
25			..	..	..	125	.. (P)		
26			..	..	..	125	.. (P)		
27	Three Rivers	Three Rivers	1925	150	450	60	WR	..	1922
28			..	..	..	90	O, C (P)		..
29			..	..	..	90	O, C (P)		..
30			..	..	..	90	O, C (P)		..
31			..	..	..	90	O, C (P)		1925
32			..	..	..	90	O, C (P)		..
33			..	..	..	90	O, C (P)		..
	Continental Can Company of Canada Ltd.:								
34	Montreal, Boxboard	Montreal	1925	205	465	35	O	..	1925
35	(see also Ont.)		1957	650	720	50	O		..
	Dominion Textile Company Limited: ¹								
36	Magog	Magog	1934	240	600	20	C (S)	Lake	1938
37			..	..	..	20	C (S)		1948
38			1937	..	..	20	C (S)		
39			1941	..	..	30	C (S)		
40			1947	..	..	45	C (S)		
41			..	..	..	45	C (S)		
42			..	..	..	45	C (S)		
	The E.B. Eddy Company: ¹								
43	Hull	Hull	1958	225	500	140	C (P)	River	1925
44	(see also Ont.)		1925	200	..	40	C (S)		
45			..	..	..	40	C (S)		
46			1945	225	..	100	C (S)		
47			1910	100	338	12	WR		
	Gaspe Copper Mines Ltd.: ²								
48	Murdochville	Murdochville	1955	475	670	25	O, WH	River	1955
49			..	..	..	25	O, WH		

¹ See Hydro-Electric Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 - Continued

December 31, 1961 - Continued															
Prime movers						Main generators									
Type	Steam Conditions		r.p.m.	Name plate rating max. cont. kw.	Total plant kw.	Year placed in service	Coolant	Name plate rating						No.	
	PSIG	°F.						Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.		
BP	400	550	3,600	6,000	6,000	..	Air	2,400	60	80	7,500	6,000	6,000	1 2 3 4	
PO	125	325	240	210	210	1924	Air	550	60	90	187	169	169	5 6	
BP PO PO	150 145 ..	330 325 ..	4,017 90 365	400 650 200	1,250	1942 ..	Air ..	550 ..	60 ..	85 ..	250 150	212 127	339	7 8 9 10 11	
..	300	470	3,600 .. ..	.. .. ..	..	1925 .. 1947	Air	600	60	80	1,250 1,250 1,875	1,000 1,000 1,500	3,500	12 13 14
..	175	..	3,600	1,250	1,250	1936	Water	2,300	60	80	1,563	1,250	1,250	15	
BP .. Cond.	420 600 175	670 720 350	6,000 3,600 ..	1,500 2,500 3,500 2,000	9,500	1934 1949 1951 1953	Air	4,000 575	60	90 80	1,670 3,125 4,375 2,500	1,500 2,500 3,500 2,000	9,500	16 17 18 19 20	
BP	125	430	3,600	945 945 945 945	3,780	1927	Air	250/300	DC .. .. ..	.. .. .. ..	.. .. 900 900 900 900	900 900 900 900	3,600	21 22 23 24 25 26
BP	150	450	3,600	500 500 500 500 500 500 500	3,500	1922 1925	Air	300	DC .. .. .. .. .. ..	.. .. .. .. .. .. ..	.. .. 500 500 500 500 500 500	500 500 500 500 500 500	3,000	27 28 29 30 31 32 33
BP ..	215 ..	480 ..	360 ..	450 450	900	1925 ..	Air ..	550 ..	60 ..	85 ..	530 530	450 450	900	34 35	
BP Cond.	240 ..	600 ..	6,000 4,800	2,000 2,000	4,000	1938 1948	Air ..	2,300 ..	60 ..	80 ..	2,500 2,500	2,000 2,000	4,000	36 37 38 39 40 41 42	
..	175	500	5,500	900	900	1952	Air	540	DC	...	...	650	650	43 44 45 46 47
Cond.	450	650	3,600	5,400	5,400	1955	Air	2,300	60	80	6,750	5,400	5,400	48 49	

² See Internal Combustion Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 — Continued

No.	General plant data			Boilers				Prime movers	
	Name of plant	Location	Year placed in service	Steam conditions		Rated steam prod. M lb. per hr.	Fuel and method of firing	Cooling water source	Year placed in service
				PSIG	°F.				
Quebec — Concluded									
Gaspesia Pulp & Paper Company Ltd.:									
1	Chandler.....	Chandler	1943	600	710	70	O	River	1954
2			"	"	"	70	O		1943
3			1958	"	"	180	O		1930
4			1953	150	450	30	O		
Noranda Mines Limited:									
5	Noranda Smelter	Noranda	1955	175	530	27	WH	Lake	1935
6			1952	"	"	27	WH		1940
7			1951	"	"	27	WH		1957
8			1953	"	"	27	WH		
9			1957	"	"	27	WH		
10			"	"	"	27	WH		
Ogilvie Flour Mills Co. Limited: ¹									
11	Montreal	Montreal	1947	450	600	30	O	River	1948
12			"	"	"	30	O		
Penmans Limited: ¹									
13	Mill #8	St-Hyacinthe	1928	125	353	10	C	"	1929
Ste. Anne Paper Co. Ltd.:									
14	Beaupré	Beaupré	1950 R	240	550	75	C (P)	River	1927
15			1951 R	"	"	75	C (P)		"
16			1960	"	"	75	C (P)		
17									
Thurso Pulp & Paper Co.:									
18	Thurso	Thurso	1957	450	710	200	C, O, WR (S)	River	1957
19			1958	"	750	102	O, BL		
20	Total name plate rating for plants not listed .....	...	...	...	...	...	...	...	...
21	Total name plate rating in province of Quebec .....	...	...	...	...	...	...	...	...
Ontario									
Abitibi Power & Paper Co. Ltd. ¹									
22	Sault Ste. Marie	Sault Ste. Marie	1956	150	500	100	C (P), WR, CG	River	1927
23			1955	"	"	85	C (P), WR, CG		
24			"	"	"	85	C (P), WR, CG		
25	Thunder Bay Division	Port Arthur	1928	360	650	55	C (S), WR (S)	Lake	1928
26			"	"	"	55	C (S), WR (S), NG		
27			1949	"	700	85	C (S), WR (S), NG		
Algoma Steel Corporation Limited: ²									
28	Port Colborne (Canadian Furnace)	Port Colborne	1954	275	550	100	BG, O	Lake	1940
29			1940	"	"	50	BG, O		
30			"	"	"	50	BG, O		
31	Sault Ste. Marie	Sault Ste. Marie	1942	400	446	100	BG, CG, C	Lake	1942
32			"	"	"	100	BG, CG, C		"
33			1943	"	"	120	BG, CG		
34			1958	"	750	175	BG, CG, O		
Bathurst Containers Ltd.:									
35	Toronto.....	Toronto	1949	240	403	18	WR, (D)	Lake	1949
36	(see also Que.)		"	"	"	18	WR, (D)		"
Brunner Mond Canada Limited:									
37	Amherstburg.....	Amherstburg	1918	200	470	25	C (S)	River	1948
38			"	"	"	25	C (S)		1918
39			"	"	"	25	C (S)		"
40			"	"	"	25	C (S)		1938
41			1938	"	480	60	C (P)		1957
42			1940	"	"	60	C (P)		
43			1948	435	700	60	C (P)		
44			1957	"	"	60	C (P)		
45			"	"	"	60	C (P)		

¹ See Hydro-Electric Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 - Continued

Prime movers						Main generators									No.
Type	Steam conditions		r.p.m.	Name plate rating max. cont. kw.	Total plant kw.	Year placed in service	Coolant	Name plate rating							
	PSIG	°F.						Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.		
E. DE Cond.	600 150	710 450	3,600 "	6,000 4,000 2,500	12,500	1954 1945 1930	Air " "	6,600 550 "	60 " "	80 " "	7,700 5,000 3,000	6,000 4,000 2,500	12,500	1 2 3 4	
PO Cond. PO	165 "	525 "	3,750 " 5,200	2,600 3,000 4,500	10,100	1935 1940 1957	Air " "	12,000 " "	25 " "	90 " "	2,890 3,333 5,000	2,600 3,000 4,500	10,100	5 6 7 8 9 10	
Cond.	435	660	4,225	1,000	1,000	1948	Air	2,300	60	80	1,250	1,000	1,000	11 12	
..	125	353	90	320*	320	1929	..	600	60	80	360	320	320	13	
BP	225 "	550 "	6,500 "	1,300 1,300	2,600	1927 " "	Air " "	600 " 540	60 " DC	100 " "	750 750 "	750 750 650	2,800	14 15 16 17	
Cond. & DE	425	700	3,600	7,500	7,500	1957	Air	2,400	60	90	8,333	7,500	7,500	18 19	
...	...	...	...	...	270	...	...	...	...	...	250	200	200	20
...	...	...	...	...	71,080	...	...	...	...	...	77,121	...	72,728	21
E & Cond.	150	500	3,600	3,500	3,500	1927	Air	2,300	60	80	4,375	3,500	3,500	22 23 24	
DE & Cond.	350	685	3,600	3,125	3,125	1928	Air	600	60	80	3,125	2,500	2,500	25 26 27	
Cond.	250	550	3,600	750	750	1940	Air	250	DC	...	...	750	750	28 29 30
..	400 "	446 "	3,600 "	625 625	1,250	1942 "	Air "	575 "	60 "	80 "	625 625	500 500	1,000	31 32 33 34	
BP	150	366	362	300*	300*	1949	Air	550	60	80	375	300	300 ^S	35 36	
..	185 " " " "	470 " " " 625	3,600 " " " "	2,500 600 600 2,000 3,750	9,450	1948 1918 " 1938 1957	Air " " " "	4,800 480 " " 4,800	60 " " " "	80 " " " "	3,125 750 750 2,500 4,690	2,500 600 600 2,000 3,750	9,450	37 38 39 40 41 42 43 44 45	

^S See Internal Combustion Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 - Continued

No.	General plant data		Boilers					Prime movers	
	Name of plant	Location	Year placed in service	Steam conditions		Rated steam prod. M lb. per hr.	Fuel and method of firing	Cooling water source	Year placed in service
				PSIG	°F.				
	Ontario — Continued								
	Canada & Dominion Sugar Co. Ltd.:								
1	Chatham	Chatham	1945	250	550	65	C (S)	River	1946
2			"	"	"	65	C (S)		"
3			"	"	"	65	C (S)		"
4			"	"	"	65	C (S)		"
5	Toronto	Toronto	1959	625	750	100	G, C (P)	Lake	1959
6			1958	100	316	15	O		
7	Wallaceburg	Wallaceburg	1925	260	550	60	C (P), O	River	1950
8			"	"	"	60	C (P), O		1953
9			1959	300	"	100	C (P), O		
	Canadian General Electric Co. Ltd. ^{1,2}								
10	Peterborough Works.....	Peterborough	1953	400	700	60	C (P)	..	1930
11			1942	"	600	100	C (P)		
12			1941	"	"	100	C (P)		
	Continental Can Co. of Canada Ltd.:								
13	Dominion Mill.....	Toronto	1912	200	375	25	C (S)	Lake	1952
14	(see also Que.)		"	"	"	25	C (S)		
15			1914	"	"	20	C (S)		
16	Toronto Boxboard Mill	Toronto	1928	300	460	70	C (P), O	Lake	1937
17			"	"	"	65	C (P), O		
	Dashwood Planing Mills:								
18	Dashwood	Dashwood	..	..	..	..	WR, (H)	Well	..
	Dryden Paper Co. Ltd. ¹								
19	Dryden.....	Dryden	1954	600	750	112	NG, C	River	1935
20			1953	"	"	135	BL		
21			1957	"	"	150	NG, C		
22			1944	135	358	65	BL		
	The E.B. Eddy Company: ¹								
23	Ottawa.....	Ottawa	1944	165	480	70	C (P)	River	1923
24	(see also Que.)		"	"	"	70	C (P)		
25			1956	"	"	100	C (P)		
26			1953	"	373	15	Elec		
	Ford Motor Co. of Canada Ltd.:								
27	Windsor Manufacturing Division	Windsor	1939	800	800	140	C (P)	River	1937
28			1938	"	"	140	C (P)		1939
29			1937	"	"	140	C (P)		"
30			1936	"	"	140	C (P)		1952
31			1952	"	"	200	C (P)		
	Goodyear Tire and Rubber Co. Ltd.:								
32	New Toronto.....	New Toronto	1939	650	650	90	C (P)	Lake	1940
33			1950	"	750	100	C (P)		
34			1916	200	348	42	O		
35			"	"	"	42	O		
	The Great Lakes Paper Co. Ltd.:								
36	Fort William	Fort William	1956	875	900	200	NG	River	1928
37			1958	450	650	200	NG		"
38			1948	"	"	100	NG		
39			1928	"	625	85	C (P)		
40			"	"	"	65	C (P), WR (D)		
	The Hamilton Cotton Company Limited:								
41	Hamilton	Hamilton	1952	450	700	30	C (P)	..	1936
42			"	"	"	35	C (S)		
	Hay & Co. Ltd.:								
43	Woodstock.....	Woodstock	1947	145	400	23	WR	Wells	1948
44			"	"	"	23	WR		
	Hiram Walker & Sons Ltd.:								
45	Walkerville	Walkerville	1952	400	580	70	C (P)	River	1938
46			1955	"	"	70	C (P)		1952
47			1958	"	"	100	C (P)		1955
48									1924

¹ See Hydro-Electric Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 - Continued

Prime movers						Main generators									No.
Type	Steam conditions		r.p.m.	Name plate rating max. cont. kw.	Total plant kw.	Year placed in service	Coolant	Name plate rating							
	PSIG	°F.						Voltage	Freq.	Power factor	kva.	kw.	Total plant kw.		
									(cycles)	(per cent)					
BP	250	550	3,600	1,500	3,000	1946	Air	600	60	80	1,875	1,500	3,000	1	
"	"	"	"	1,500	"	"	"	"	"	"	1,875	1,500	"	2	
BP	600	750	3,600	2,500	2,500	1959	Air	600	60	80	3,125	2,500	2,500	3	
BP	250	550	3,600	1,500	3,000	1950	Air	600	60	80	1,875	1,500	3,000	4	
"	"	"	"	1,500	"	1953	"	"	"	"	1,875	1,500	"	5	
Cond. & BP	400	600	3,600	2,000	2,000	1930	Air	6,600	60	80	2,500	2,000	2,000	6	
BP	150	375	5,057	225	225	1934	Air	500	DC	...	...	250	250	7
Cond.	300	460	3,600	2,500*	2,500*	1937	Air	600	60	80	3,125	2,500	2,500	8	
PO	..	..	50	100*	100*	1952	Air	550	60	80	125*	100	100	9
E & BP	600	750	3,600	6,600	6,600	1955	Air	4,160	60	90	6,666	6,000	6,000	10	
..	160	460	3,600	2,500	2,500	1923	Air	2,400	60	100	2,500	2,500	2,500	11	
PO	800	800	3,600	20,000		1937	Air	13,800	60	80	25,000	20,000		12	
"	"	"	"	5,000		1936	"	"	"	100	5,000	5,000		13	
"	"	"	"	25,000		1939	"	"	"	80	31,250	25,000		14	
"	"	"	"	31,250	81,250	1952	Hyd.	"	"	"	35,938	28,750	78,750	15	
Cond. & PO	650	750	5,760	2,500*	2,500*	1940	Air	2,200	60	80	3,125	2,500	2,500	16	
BP	450	650	3,600	4,000	9,000	1928	Air	4,000	60	80	5,000	4,000	9,000	17	
DE & Cond.	"	"	"	5,000	"	"	"	"	"	"	6,250	5,000	"	18	
BP	425	700	7,400	1,111	1,111	1936	Air	2,200	60	90	1,111	1,000	1,000	19	
Cond.	145	400	3,780	500	500	1948	Air	480	60	80	625	500	500	20	
PO & Cond.	400	580	3,600	1,000		1938	Air	4,160	60	80	1,250	1,000		21	
BP	150	450	"	1,000		1952	"	"	"	"	1,250	1,000		22	
PO & BP	400	580	"	2,500		1955	"	"	"	"	3,125	2,500		23	
Cond.	150	450	"	625	5,125	1924	"	"	"	"	780	625	5,125	24	

* See Internal Combustion Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 - Continued

No.	General plant data		Boilers					Prime movers	
	Name of plant	Location	Year placed in service	Steam conditions		Rated steam prod. M lb. per hr.	Fuel and method of firing	Cooling water source	Year placed in service
				PSIG	°F.				
	Ontario—Continued								
	Huron Forests Products Co. Limited:								
1	Blind River	Blind River	1927	156	..	40	WR (D)	Lake	1927
2			"	"	..	40	WR (D)		"
3			"	"	..	40	WR (D)		"
	Hydro Electric Power Commission of Ontario: ^{1,2}								
4	J. Clark Keith	Windsor	1952	875	900	650	C (P)	River	1952
5			1951	"	"	650	C (P)		1951
6			1953	"	"	650	C (P)		1953
7			"	"	"	650	C (P)		"
8	Lakeview	Near Toronto ³	1961	2,400	1,000	2,000	C (P)	Lake	1961
9	Richard L. Hearn	Toronto	1951	875	900	850	C (P)	Lake	1951
10			1952	"	"	850	C (P)		1952
11			"	"	"	850	C (P)		"
12			1953	"	"	850	C (P)		1953
13		"	1959	1,900	1,000	1,350	C (P)		1959
14		"	1960	"	"	1,350	C (P)		1960
15		"	"	"	"	1,350	C (P)		"
16		"	1961	"	"	1,350	C (P)		1961
	Kalamazoo Vegetable Parchment Company Limited: ¹								
17	Espanola	Espanola	1946	252	460	90	BL	River	1951
18			"	"	"	100	C (P)		
19			1950	"	"	100	C (P)		
20			1958	725	"	160	BL		
	Kroehler Manufacturing Co. Ltd.:								
21	Stratford	Stratford	1920	160	500	8	C, WR (H)	..	1927
22			1946	200	"	12	C, WR (S)		
	Marathon Corporation of Canada Ltd.:								
23	Marathon Pulp Mill	Marathon	1946	675	700	115	C (P)	Lake	1946
24			"	"	"	115	C (P)		1948
25			"	"	"	115	O		"
26			"	"	"	70	BL		
27			"	"	"	70	BL		
28			1954	"	"	85	BL		
	The Ontario-Minnesota Pulp and Paper Company Limited: ¹								
29	Fort Frances	Fort Frances	1930	385	590	35	C (S)	River	1927
30			"	"	"	35	C (S)		
31			1947	"	"	85	C (S)		
32			1953	"	"	100	C (S)		
	Ontario Paper Company Limited:								
33	Thorold	Thorold	1936	422	660	150	C (P) NG	Canal	1937
34			"	"	"	150	C (P) NG		
35			1937	"	"	150	C (P) NG		
36			1948	"	"	150	C (P) NG		
	Polymer Corporation Limited:								
37	Samia	Sarnia	1943	420	615	275	C (P), O, WG	River	1943
38			"	"	"	275	C (P), O, WG		1946
39			1944	"	"	275	C (P), O		1943
40			"	"	"	275	C (P), O		1956
41			"	"	"	275	C (P), O		
42			1953	"	720	440	C (P), O		
	Proctor & Gamble Co. of Canada Ltd.:								
43	Hamilton	Hamilton	1947	850	527	60	C (S)	..	1951
44			1950	"	"	60	C (S)		
	George Rathbone Lumber Co. Ltd.:								
45	Toronto.....	Toronto	1930	145	350	10	WR, (S)	..	..
	Sheppard & Morse Ltd.: ¹								
46	Sudbury	Sudbury Dist.	1949	..	..	..	WR (P)	..	1949
47			"	..	..	..	WR (P)		

¹ See Hydro-Electric Equipment Section.² See Internal Combustion Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 - Continued

Prime movers						Main generators									No.
Type	Steam conditions		r.p.m.	Name plate rating max. cont. kw.	Total plant kw.	Year placed in service	Coolant	Name plate rating							
	PSIG	°F.						Voltage	Freq.	Power factor	kva.	kw.	Total plant kw.		
									(cycles)	(per cent)					
Cond.	150	..	3,600	750	2,750	1927	Air	2,300	60	80	935	750	2,750	2	
"	"	..	"	2,000		"	"	"	"	"	"	2,500		2,000	3
Cond.	850	900	3,600	66,000	264,000	1952	Hyd.	13,800	60	85	77,500	66,000	264,000	4	
"	"	"	"	66,000		1951	"	"	"	"	"	77,500		66,000	5
"	"	"	"	66,000		1953	"	"	"	"	"	77,500		66,000	6
"	"	"	"	66,000		"	"	"	"	"	"	77,500		66,000	7
Cond.	2,350	1,000	3,600	300,000	300,000	1961	Hyd.	16,000	60	85	352,942	300,000	300,000	8	
"	"	"	1,800	100,000		"	"	"	"	"	"	"		"	9
"	"	"	"	100,000		"	"	"	"	"	"	"		"	10
Cond.	850-875	900	1,800	100,000	1,200,000	1951	Hyd.	13,800	60	87	115,000	100,000	1,200,000	11	
"	"	"	"	100,000		1952	"	"	"	"	"	115,000		100,000	12
"	"	"	"	100,000		"	"	"	"	"	"	121,000		100,000	13
"	"	"	"	100,000		1953	"	"	"	"	"	115,000		100,000	14
"	1,800	1,000	3,600	200,000	1,200,000	1959	"	"	"	85	235,294	200,000	1,200,000	15	
"	"	"	1,800	200,000		"	"	"	"	"	"	235,294		200,000	16
"	"	"	3,600	200,000		"	"	"	"	"	"	235,294		200,000	17
"	"	"	1,800	200,000		"	"	"	"	"	"	235,294		200,000	18
BP	250	460	3,189	2,000*	2,000*	..	Air	2,300	60	80	2,500	2,000	2,000	19	
														20	
BP	150	500	360	320	320	1927	Air	480	60	80	400	320	320	21	
														22	
Cond.	600	700	3,600	7,500	15,500	1946	Air	6,900	60	90	9,375	7,500	15,500	23	
"	"	"	"	4,000		1948	"	"	"	"	"	5,000		4,000	24
BP	"	"	"	4,000		"	"	"	"	"	"	5,000		4,000	25
															26
														27	
														28	
BP	385	595	3,600	3,000	3,000	1927	Air	6,900	60	80	3,750	3,000	3,000	29	
														30	
														31	
														32	
BP & PO	420	670	4,994	4,000	8,000	1937	Air	11,000	25	80	5,000	4,000	8,000	33	
"	"	"	"	4,000		"	"	"	"	"	"	5,000		4,000	34
"	"	"	"			"	"	"	"	"	"				35
"	"	"	"			"	"	"	"	"	"				36
Cond.	165	620	1,800	9,500	34,193	1943	Air	6,600	66	90	12,500	11,250	33,530	37	
BP & Cond.	410	"	3,600	7,193		1946	"	13,800	60	70	7,143	5,000		5,000	38
BP	"	"	"	5,000		1943	"	6,600	"	80	5,000	4,000		4,000	39
"	"	720	"	12,500		1956	"	13,800	"	85	15,625	13,280		13,280	40
														41	
														42	
BP	775	517	3,625	448	448	1951	Air	36	DC	...	...	350	350	43
														44	
..	145	350	400	250	250	1930	..	220	60	80	313*	250	250	45	
BP	125	..	4,950	72	72	1949	..	208/120	60	80	50	40	40	46	
														47	

* H.E.P.C. - Two Generators Connected Electrically, one at 3,600 R.P.M. and one at 1,800 R.P.M.

SECTION 2. Steam Equipment as at December 31, 1961 - Continued

No.	General plant data		Boilers					Prime movers	
	Name of plant	Location	Year placed in service	Steam conditions		Rated steam prod. M lb. per hr.	Fuel and method of firing	Cooling water source	Year placed in service
				PSIG	°F.				
	Ontario—Concluded								
	Spruce Falls Power & Paper Co. Ltd.: ¹								
1	Kapuskasing	Kapuskasing	1952	250	560	100	C (P), NG, WR	River	1928
2			1928	"	"	90	C (P)		"
3			"	"	"	90	C (P), WR		1945
4			"	"	"	100	C (P), NG		1958
5			"	"	"	100	C (P), NG		
6			1960	"	"	180	C (P), NG, WR		
	The Steel Company of Canada Limited:								
7	Hamilton Works	Hamilton	1948	450	750	125	BG, O, CG	Lake	1948
8			"	"	"	125	BG, O, CG		1959
9			"	"	"	125	BG, O, CG		
10			"	"	"	125	BG, O, CG		
11			1956	"	"	125	BG, O, CG		
	Strathcona Paper Company Limited:								
12	Strathcona	Strathcona	1937	400	590	25	C (S)	River	1955
13			1952	415	600	50	C (S)		"
14	Total generator name plate rating for plants not listed .....	...	...	...	...	...	...	...	...
15	Total name plate rating in province of Ontario .....	...	...	...	...	...	...	...	...
	Manitoba								
	Manitoba Hydro: ^{1,2}								
16	Brandon	Brandon	1957	625	825	325	C (P), NG, O	River	1957
17			1958	"	"	325	C (P), NG, O		1958
18			"	"	"	325	C (P), NG, O		"
19			"	"	"	325	C (P), NG, O		"
20	Selkirk	Selkirk	1960	875	915	600	C (P), O	River	1960
21			"	"	"	600	C (P), O		"
	The Manitoba Sugar Company Limited:								
22	Fort Garry	Winnipeg	1940	300	614	45	O	River	1940
23			"	"	"	45	O		1953
24			1952	"	"	50	O		
	The National Harbours Board: ²								
25	Churchill	Churchill	1930	275	650	25	C (S), GrR	Tidal	1931
26			"	"	"	25	C (S), GrR	River	"
27			"	"	"	12	C (S), GrR		"
	Winnipeg Hydro-Electric System: ¹								
28	Winnipeg	Winnipeg	1924	250	550	70	C (P)	River	1924
29			"	"	"	70	C (P)		"
30			"	"	"	70	C (P)		1952
31			1930	"	"	70	C (P)		1954
32			1950	"	"	125	C (S)		
33			1957	"	"	125	C (S)		
34			1952	400	750	165	C (P)		
35			1953	"	"	280	C (P)		
36	Total name plate rating in province of Manitoba .....	...	...	...	...	...	...	...	...
	Saskatchewan								
	Hudson Bay Mining and Smelting Co. Limited:								
37	Flin Flon	Flin Flon (Sask.)	1929	250	530	14	C (H)	Lake	1929
38			1930	"	"	14	O		1951
39			"	"	550	22	WH		
40			"	"	"	22	WH		
41			1951	450	725	46	WH		
42			"	"	"	46	WH		
	Regina, City of: ⁴								
43	Regina	Regina	1950	400	800	300	O, NG	Lake	1938
44			1938	"	"	150	O		1950
45			1946	"	"	100	O, NG		1925
46			1948	"	"	100	O, NG		
47			1951	"	"	165	O, NG		1955

¹ See Hydro-Electric Equipment Section.² See Internal Combustion Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 - Continued

Prime movers						Main generators								No.
Type	Steam conditions		r.p.m.	Name plate rating max. cont. kw.	Total plant kw.	Year placed in service	Coolant	Name plate rating						
	PSIG	°F.						Voltage	Freq.	Power factor	kva.	kw.	Total plant kw.	
									(cycles)	(per cent)				
BP	250	560	6,500	650		1928	Air	600	DC	...	...	650		2
Cond.	"	"	"	650		"	"	540	"	...	...	650		3
BP	"	"	1,800	12,500		1945	"	6,600	60	80	15,630	12,500		4
			3,600	9,100	22,900	1958	"	"	"	"	10,100	9,100	22,900	5
														6
BP	450	750	3,600	4,000		1948	Air	6,900	25	80	5,000	4,000		7
Cond.	160	450	1,500	6,000	10,000	1959	"	6,600	"	100	6,000	6,000	10,000	8
														9
														10
														11
BP	400	590	3,600	2,000		1955	Air	575	60	80	2,000	1,600		12
"	"	"	"	2,000	4,000	"	"	"	"	"	2,000	1,600	3,200	13
...	...	...	...	...	805	...	...	...	...	...	750	655	655	14
...	...	...	...	...	2,008,524	...	...	...	...	...	2,357,874	...	2,002,720	15
Cond.	600	825	3,600	33,000		1957	Hyd.	13,800	60	85	38,800	33,000		16
"	"	"	"	33,000		1958	"	"	"	"	38,800	33,000		17
"	"	"	"	33,000	132,000	"	"	"	"	"	38,800	33,000		18
Cond.	850	900	3,600	66,000		1960	Hyd.	13,800	60	85	77,600	66,000		19
"	"	"	"	66,000	132,000	"	"	"	"	"	77,600	66,000	132,000	20
														21
BP	280	614	3,600	1,500		1940	Air	600	60	80	1,875	1,500		22
"	300	610	"	2,500	4,000	1953	"	550	"	"	3,125	2,500	4,000	23
														24
Cond.	250	650	3,600	1,500		1931	Air	600	60	80	1,875	1,500		25
"	"	"	"	1,500		"	"	"	"	"	1,875	1,500		26
"	"	"	"	600	3,600	"	"	"	"	"	750	600	3,600	27
Cond.	250	550	3,600	5,000		1924	Air	12,000	60	80	6,250*	5,000		28
"	"	"	"	5,000		"	"	"	"	"	6,250*	5,000		29
"	400	750	"	15,000		1952	"	"	"	"	18,750*	15,000		30
"	"	"	"	25,000	50,000	1954	"	"	"	85	24,412*	25,000	50,000	31
														32
														33
														34
														35
...	...	...	...	...	321,600	...	...	...	...	...	380,562	...	321,600	36
Cond.	200	525	3,600	1,000		1929	Air	2,300	60	80	1,250	1,000		37
"	400	725	"	7,500	8,500	1951	"	6,900	"	"	7,500	6,000	7,000	38
														39
														40
														41
														42
Cond.	400	800	3,600	15,000		1938	Air	14,000	60	80	18,750	15,000		43
"	"	"	"	20,000		1950	"	"	"	"	25,000	20,000		44
"	"	750	"	5,000		1925	"	4,200	"	"	6,250	5,000		45
"	"	800	"	30,000	70,000	1955	"	14,000	"	"	37,500	30,000	70,000	46
														47

* See Gas Turbines Section.

SECTION 2. Steam Equipment as at December 31, 1961 - Continued

No.	General plant data		Boilers					Prime movers	
	Name of plant	Location	Year placed in service	Steam conditions		Rated steam prod. M lb. per hr.	Fuel and method of firing	Cooling water source	Year placed in service
				PSIG	°F.				
	Saskatchewan — Concluded								
	Saskatchewan Power Corporation: ^{2,4}								
1	Boundary Dam	Estevan	1959	875	915	600	C (P)	River	1959
2			1960	"	"	600	C (P)		1960
3	A.L. Cole	Saskatoon	1929	400	735	85	O, NG	River	1929
4			1928	"	"	85	C (S)		1947
5			1939	"	800	140	C (S)		1953
6			1950	"	"	180	C (S)		1954
7			1954	"	"	225	C (S), O, NG		1957
8			1955	415	"	300	O, NG		
9			1957	865	910	330	C (P), O, NG		
10	Estevan	Estevan	1948	420	680	80	C (S)	River	1929
11			1950	"	"	100	C (S)		"
12			1953	"	720	200	C (S)		1948
13			1957	"	"	225	C (S)		1950
14			"	"	"	225	C (S), NG		1953
15									1957
16									
17	Moose Jaw	Moose Jaw	1930	250	700	50	O, NG	River	1931
18			1931	"	"	50	O, NG		1927
19			1939	600	800	120	C (P), O, NG		1952
20			1946	250	700	30	O, NG		1946
21			"	"	"	30	O, NG		1954
22			1949	600	800	140	C (P), O, NG		
23			1953	"	"	100	C (P), O, NG		
24	Prince Albert	Prince Albert	1936	325	700	37	C (S)	River	1925
25			1945	"	"	100	O, NG		1949
26			1949	"	"	115	O, NG		1936
27									1952
28	Queen Elizabeth	Saskatoon	1958	875	915	600	C (P), O, NG	River	1958
29			1959	"	"	600	C (P), O, NG		1959
	Sifto Salt Limited: ²								
30	Unity	Unity	1948	220	520	20	NG	Lake	1948
31			(see also N.S.)	"	"	20	NG		
32	Total name plate rating in province of Saskatchewan .....	...	...	...	...	...	...	...	...
	Alberta								
	Calgary Power Ltd.: ^{1,2}								
33	Wabumun	1 W. Wabumun	1956	850	900	625	NG, O	Lake	1956
34			1958	"	"	625	NG, O		1958
	Canadian Chemical Company Limited:								
35	Clover Bar	Edmonton	1953	600	750	275	NG	River	1953
36			"	"	"	275	NG		"
37			"	"	"	275	NG		"
38			"	"	"	275	NG		
	The Canadian Salt Company Limited:								
39	Lindbergh	Lindbergh	1948	225	397	30	NG	River	1948
40			"	"	"	30	NG		1957
	Canadian Sugar Factories Ltd.:								
41	Picture Butte	Picture Butte	1936	250	550	50	NG, O	Lake	1936
42			"	"	"	50	NG, O		
43	Raymond	Raymond	1925	155	370	17	C (S)	Lake	1932
44			"	"	"	17	C (S)		1940
45			"	"	"	17	C (S)		
46			"	"	"	17	C (S)		
47			"	"	"	17	C (S)		
48			"	"	"	17	C (S)		
49	Taber	Taber	1950	410	625	70	NG	Lake	1950
50			"	"	"	70	O		1960
51			1960	"	"	80	NG, O		

¹ See Hydro-Electric Equipment Section.² See Internal Combustion Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 - Continued

Prime movers						Main generators								No.
Type	Steam conditions		r.p.m.	Name plate rating max. cont. kw.	Total plant kw.	Year placed in service	Coolant	Name plate rating						
	PSIG	°F.						Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
Cond.	875	910	3,600	66,000	132,000	1959	Hyd.	14,400	60	80	82,500	66,000	132,000	1
Cond.	400	735	3,600	66,000		1960	"	"	"	"	82,500	66,000		2
"	"	800	"	10,000	105,000	1929	Air	13,200	60	80	12,500	10,000	105,000	3
"	"	"	"	15,000		1947	"	13,800	"	"	18,750	15,000		4
"	"	"	"	25,000		1953	"	"	"	"	31,250	25,000		5
"	865	910	"	25,000		1954	"	"	"	"	31,250	25,000		6
"	"	"	"	30,000	1957	Hyd.	14,400	"	"	"	37,500	30,000	7	
Cond.	250	525	3,600	1,250	72,750	1929	Air	2,300	60	80	1,563	1,250	72,750	8
"	"	"	"	1,500		"	"	"	"	"	1,875	1,500		9
"	420	100	"	5,000		1948	"	"	"	100	5,000	5,000		10
"	"	"	"	15,000		1950	"	13,800	"	90	16,667	15,000		11
"	"	"	"	20,000		1953	"	"	"	"	22,222	20,000		12
"	"	"	"	30,000		1957	"	14,400	"	80	37,500	30,000		13
Cond.	250	700	3,600	10,000	38,500	1931	Air	4,000	60	80	12,500	10,000	38,500	14
"	"	"	"	5,000		1927	"	"	"	"	6,250	5,000		15
"	600	800	"	15,000		1952	"	13,800	"	"	18,750	15,000		16
Cond. & E	250	700	"	6,000		1946	"	4,000	"	"	6,250	5,000		17
"	600	800	"	2,500		1954	"	2,300	"	"	3,125	2,500		18
Cond.	200	550	3,600	1,500	22,200	1925	Air	4,000	60	80	1,875	1,500	22,200	19
"	315	700	"	7,500		1949	"	"	"	85	8,824	7,500		20
"	"	"	"	3,200		1936	"	"	"	"	3,775	3,200		21
"	"	"	"	10,000		1952	"	14,000	"	80	12,500	10,000		22
Cond.	875	910	3,600	66,000	132,000	1958	Hyd.	14,400	60	80	82,500	66,000	132,000	23
"	"	"	"	66,000		1959	"	"	"	"	82,500	66,000		24
"	220	510	4,053	1,000	1,000	1948	Air	2,400	60	80	1,250	1,000	1,000	25
...	...	...	...	...	581,950	...	...	...	...	...	717,426	...	579,450	26
Cond.	850	900	3,600	66,000	132,000	1956	Hyd.	13,800	60	90	73,300	66,000	132,000	27
"	"	"	"	66,000		1958	"	"	"	"	73,300	66,000		28
Cond. & E	600	750	3,600	6,000	18,000	1953	Air	6,900	60	80	7,500	6,000	18,000	29
"	"	"	"	6,000		"	"	"	"	"	7,500	6,000		30
"	"	"	"	6,000		"	"	"	"	"	7,500	6,000		31
"	"	"	"	6,000		"	"	"	"	"	7,500	6,000		32
BP	225	397	4,500	250	650	1948	Air	2,300	60	90	312	250	650	33
"	"	"	3,600	400		1957	"	600	"	"	475	400		34
BP	240	550	4,500	1,562	1,562	1936	Air	480	60	80	1,562	1,250	1,250	35
BP	150	365	4,500	940	1,880	1932	Air	480	60	80	940	750	1,500	36
"	"	"	"	940		1940	"	"	"	"	940	750		37
BP	410	625	3,600	2,500	4,175	1950	Air	2,300	60	80	2,500	2,000	3,675	38
"	"	"	5,500	1,675		1960	"	"	"	"	2,094	1,675		39
														40
														41
														42
														43
														44
														45
														46
														47
														48
														49
														50
														51

* See Gas Turbines Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 — Continued

No.	General plant data		Boilers					Prime movers	
	Name of plant	Location	Year placed in service	Steam conditions		Rated steam prod. M lb. per hr.	Fuel and method of firing	Cooling water source	Year placed in service
				PSIG	°F.				
	Alberta — Concluded								
	Canadian Utilities Ltd.: ^{2,4}								
1	Battle River	Forestburg	1956	700	825	350	C (P), O	Lake	1956
2	Drumheller	Drumheller	1948	450	750	100	C (P)	River	1948
3			1951	"	"	100	C (P)		1951
4	Vermilion	Vermilion	"	450	750	30	NG	"	"
5			"	"	"	30	NG	"	"
6			"	"	"	30	NG	"	"
7			"	"	"	30	NG	"	"
	East Kootenay Power Co. Ltd.:								
8	Sentinel	Coleman	1946	240	550	90	C (P)	Lake	1927
9			"	"	"	90	C (P)		1929
	Edmonton, City of: ⁴								
10	Edmonton	Edmonton	1938	415	750	200	O, NG	River	1939
11			1932	"	"	150	O		1944
12			1941	"	"	200	O		1949
13			1947	"	"	200	O, NG		1953
14			"	"	"	200	O, NG		1955
15			1953	"	"	200	O		1960
16			1955	"	"	330	O, NG		
17			1960	850	900	660	O, NG		
	Lethbridge, City of: ⁴								
18	Lethbridge	Lethbridge	1931	270	600	35	NG	River	1931
19			"	"	"	35	NG		1943
20			1942	"	"	70	NG		1953
21			1953	"	"	80	NG		
	Medicine Hat, City of:								
22	Medicine Hat	Medicine Hat	1945	300	550	70	NG	River	1929
23			1949	"	"	70	NG		1949
24			1953	450	750	175	NG		1953
25			"	"	"	175	NG		
	North Western Pulp & Power Ltd.: ²								
26	Hinton	Hinton	1957	600	750	188	NG, WR	River	1957
27			"	"	"	200	NG		
28			"	"	"	210	NG, BL		
	British American Oil Co. Ltd.:								
29	Rimbey, Gas Processing Plant	Rimbey	1960	450	530	100	NG	Wells	1960
30			"	"	"	100	NG		"
31			"	"	"	100	NG		"
	Sherritt Gordon Mines Limited:								
32	Fort Saskatchewan	Fort Saskatchewan	1954	900	750	150	NG	River	1954
33			"	"	"	150	NG		1959 R
	Western Chemicals Ltd.: ^{2,4}								
34	Duvernay	Duvernay	1953	225	397	25	NG	River	1954
35			"	"	"	25	NG		1953
36			1954	"	"	18	NG		"
37			1957	"	"	72	NG		1957
38	Total name plate rating in province of Alberta .....	...	...	...	...	...	...	...	...
	British Columbia								
	British Columbia Forest Products Limited:								
39	Cowichan Sawmill Division	Youbou	1954	155	360	7	WR (D)	Lake	1929
40			1930	"	"	7	WR (D)		1935
41			"	"	"	7	WR (D)		1958
42			"	"	"	7	WR (D)		1949
43			1941	"	"	7	WR (D)		
44			1954	"	"	7	WR (D)		
45			1937	"	"	7	WR (D)		
46			1930	212	45	38	WR (D)		

² See Internal Combustion Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 - Continued

Prime movers						Main generators									No.
Type	Steam conditions		r.p.m.	Name plate rating max. cont. kw.	Total plant kw.	Year placed in service	Coolant	Name plate rating							
	PSIG	°F.						Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.		
Cond.	600	825	3,600	32,000	32,000	1956	Air	14,400	60	90	35,300	32,000	32,000	1	
Cond.	400	750	3,600	7,500	15,000	1948	Air	14,400	60	80	9,375	7,500	15,000	2	
Cond.	400	750	3,600	2,250		1951	Air	2,300	60	80	2,813*	2,250		3	
"	"	"	"	2,250		"	"	"	"	"	2,813*	2,250		4	
"	"	"	"	2,250		"	"	"	"	"	2,813*	2,250		5	
"	"	"	"	2,250	9,000	"	"	"	"	"	2,813*	2,250	9,000	6	
"	"	"	"	2,250		"	"	"	"	"	2,813*	2,250		7	
Cond.	225	550	3,600	5,000	10,000	1927	Air	6,600	60	80	6,250	5,000	10,000	8	
"	"	"	"	5,000		1929	"	"	"	"	6,250	5,000		9	
Cond.	375	750	3,600	15,000		1939	Air	13,800	60	80	18,750	15,000		10	
"	"	"	"	15,000		1944	"	"	"	"	18,750	15,000		11	
"	"	"	"	30,000		1949	"	"	"	"	37,500	30,000		12	
"	"	"	"	30,000		1953	"	"	"	"	37,500	30,000		13	
"	850	900	"	30,000	195,000	1955	"	"	"	"	37,500	30,000	195,000	14	
"	"	"	"	75,000		1960	Hyd.	14,400	"	85	93,750	75,000		15	
"	"	"	"				"	"	"	"				16	
"	"	"	"				"	"	"	"				17	
Cond.	270	600	3,600	3,375*		1931	Air	13,800	60	80	4,550	3,375		18	
"	"	"	"	5,000*	13,375*	1943	"	"	"	"	5,554	5,000	13,375	19	
"	"	"	"	5,000*		1953	"	"	"	"	5,554	5,000		20	
"	"	"	"				"	"	"	"				21	
Cond.	170	550	3,600	3,000		1929	Air	2,300	60	80	3,750	3,000		22	
"	270	"	"	5,000		1949	"	13,800	"	85	5,800	5,000		23	
"	375	750	"	30,000	38,000	1953	"	14,000	"	90	37,000	30,000	38,000	24	
"	"	"	"				"	"	"	"				25	
DE & Cond.	600	750	3,600	20,000	20,000	1957	Hyd.	13,800	60	85	25,600	20,000	20,000	26	
"	"	"	"				"	"	"	"				27	
"	"	"	"				"	"	"	"				28	
BP	450	530	5,000	1,000		1960	Air	480	60	80	1,250	1,000		29	
"	"	"	"	1,000		"	"	"	"	"	1,250	1,000		30	
"	"	"	"	1,000	3,000	"	"	"	"	"	1,250	1,000	3,000	31	
E. & Cond.	875	750	3,600	3,000	6,000	1954	Air	4,160	60	80	3,125	2,500		32	
"	"	"	"	3,000		1959 R	"	"	"	"	3,125	2,500	5,000	33	
BP	225	397	3,600	300		1954	Air	575	60	80	375	300		34	
"	"	"	"	300		1953	"	"	"	"	375	300		35	
"	"	"	"	300		"	"	"	"	"	375	300		36	
"	"	"	6,000	1,200	2,100	1957	"	2,300	"	"	1,500	1,200	2,100	37	
...	...	...	...	...	501,742	...	...	...	...	...	599,908	...	499,550	38
Cond.	200	450	3,600	800		1929	Air	440	60	80	1,000	800		39	
"	10	"	"	750		1935	"	"	"	"	937	750		40	
"	155	"	"	750		1958	"	"	"	"	937	750		41	
"	200	450	"	2,000	4,300	1949	"	"	"	"	2,500	2,000	4,300	42	
"	"	"	"				"	"	"	"				43	
"	"	"	"				"	"	"	"				44	
"	"	"	"				"	"	"	"				45	
"	"	"	"				"	"	"	"				46	

* See Gas Turbine Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 — Continued

No.	General plant data		Boilers					Prime movers	
	Name of plant	Location	Year placed in service	Steam conditions		Rated steam prod. M lb. per hr.	Fuel and method of firing	Cooling water source	Year placed in service
				PSIG	°F.				
	British Columbia — Continued								
	British Columbia Forest Products Limited—Concluded:								
1	Hammond Sawmill Division	Hammond	1926	160	370	7	WR (D)	River	1927
2			"	"	"	7	WR (D)		1929
3			"	"	"	7	WR (D)		
4			"	"	"	7	WR (D)		
5			"	"	"	7	WR (D)		
6			"	"	"	7	WR (D)		
7			"	"	"	7	WR (D)		
8			1949	"	"	7	WR (D)		
9			1930	"	"	7	WR (D)		
10			1951	"	"	7	WR (D)		
11			1929	"	"	7	WR (D)		
12			1942	"	"	7	WR (D)		
13			"	"	"	7	WR (D)		
14			"	"	"	7	WR (D)		
15			1960	"	"	7	WR (D)		
16	Victoria Sawmill Division	Victoria	1952	250	458	60	WR, O	Sea	1940
17			1938	175	378	40	WR, O		1950
18			1940	"	"	25	WR, O		
19			1929	"	"	35	WR, O		
	British Columbia Sugar Refining Company Limited:								
20	Vancouver	Vancouver	1947	475	665	56.6	NG, O	Sea	1947
21			"	"	"	56.6	NG, O		"
22									1960
	Canadian Forest Products Limited: ²								
23	Eburne Sawmills	Vancouver	1960	400	650	91	WR (S)	River	1960
24									"
25	Howe Sound Pulp Division	Port Mellon	1928	400	550	30	O	River	1947
26			"	"	"	30	O		1928
27			1941	250	406	35	O		
28			1947	400	550	75	BL		
29			1956	"	725	77	BL		
	Columbia Cellulose Co. Ltd.:								
30	Watson Island	Watson Island	1950	700	750	250	O, WR	Lake	1950
31			"	"	"	250	O, WR		"
	Consolidated Mining and Smelting Company of Canada Limited: ^{1,2}								
32	Kimberley	Kimberley	1926	200	400	11	C (S)	River	1927
33			"	"	"	11	C (S)		"
34			1927	"	"	11	C (S)		1928
	Crown Zellerbach Building Materials Ltd.:								
35	New Westminster	New Westminster	1950	600	725	75	WR (D)	River	1947
36			"	"	"	75	WR (D)		1912
37			"	"	"	75	WR (D)		1950
38			1942	150	467	25	WR (D)		
39			1937	"	367	30	WR (D)		
40			1918	"	"	20	WR (D)		
	Crown Zellerbach Canada Limited: ¹								
41	Ocean Falls	Ocean Falls	1953	625	680	50	BL	Lake	1930
42			1948	780	750	175	O		1937
43			1938	600	"	60	BL		1946
44			1930	400	650	100	O, WR		1948
45			1919	150	450	20	O, WR		
46			"	"	"	20	O, WR		
47			1918	"	"	22	O		
48			"	"	"	22	O		
49			"	"	"	22	O		
50			"	"	"	22	O		

¹ See Hydro Electric Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 - Continued

Prime movers						Main generators									No.
Type	Steam conditions		r.p.m.	Name plate rating max. cont. kw.	Total plant kw.	Year placed in service	Coolant	Name plate rating							
	PSIG	°F.						Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.		
Cond.	160	370	3,600	2,000	4,000	1927	Air	480	60	80	2,500	2,000	4,000	1	
"	"	"	"	2,000		1929	"	"	"	"	2,500	2,000		2	
"	"	"	"	"		"	"	"	"	"	"	"		3	
"	"	"	"	"		"	"	"	"	"	"	"		4	
"	"	"	"	"		"	"	"	"	"	"	"		5	
"	"	"	"	"	"	"	"	"	"	"	"	"	6		
"	"	"	"	"	"	"	"	"	"	"	"	"	7		
"	"	"	"	"	"	"	"	"	"	"	"	"	8		
"	"	"	"	"	"	"	"	"	"	"	"	"	9		
"	"	"	"	"	"	"	"	"	"	"	"	"	10		
"	"	"	"	"	"	"	"	"	"	"	"	"	11		
"	"	"	"	"	"	"	"	"	"	"	"	"	12		
"	"	"	"	"	"	"	"	"	"	"	"	"	13		
"	"	"	"	"	"	"	"	"	"	"	"	"	14		
"	"	"	"	"	"	"	"	"	"	"	"	"	15		
Cond.	175	450	3,600	3,000	4,500	1940	Air	4,000	60	80	3,750	3,000	4,500	16	
"	"	"	"	1,500		1950	"	600	"	"	1,875	1,500		17	
"	"	"	"	"		"	"	"	"	"	"	"		18	
"	"	"	"	"		"	"	"	"	"	"	"		19	
"	"	"	"	"		"	"	"	"	"	"	"		20	
BP	470	650	3,600	1,000	3,250	1947	Air	2,300	60	80	1,563	1,250	3,750	21	
"	"	"	"	1,000		"	"	"	"	"	1,563	1,250		22	
"	"	"	5,500	1,250		1960	"	"	"	"	1,563	1,250		23	
"	"	"	"	"		"	"	"	"	"	"	"		24	
"	"	"	"	"		"	"	"	"	"	"	"		25	
E & Cond.	400	650	3,600	5,000	10,000	1960	Air	2,300	60	80	6,250	5,000	10,000	26	
"	"	"	"	5,000		"	"	"	"	"	6,250	5,000		27	
Cond.	5	230	3,600	500		1947	Air	440	60	70	715	500		28	
PO	400	550	"	3,000		1928	"	2,300	"	80	3,750	3,000		29	
PO & BP	"	"	"	1,500		"	"	"	"	"	1,875	1,500		30	
DE & Cond.	600	750	3,600	7,500	15,000	1950	Air	6,900	60	70	10,714	7,500	15,000	31	
"	"	"	"	7,500		"	"	"	"	"	10,714	7,500		32	
"	"	"	"	"		"	"	"	"	"	"	"		33	
"	"	"	"	"		"	"	"	"	"	"	"		34	
"	"	"	"	"		"	"	"	"	"	"	"		35	
Cond.	185	485	3,600	1,500	4,500 ^s	1927	Air	575	60	80	1,750	1,500	4,500 ^s	36	
"	"	"	"	1,500		"	"	"	"	"	1,750	1,500		37	
"	"	"	"	1,500		1928	"	"	"	"	1,750	1,500		38	
"	"	"	"	"		"	"	"	"	"	"	"		39	
"	"	"	"	"		"	"	"	"	"	"	"		40	
Cond.	150	550	3,600	5,000	12,500	1947	Air	2,300	60	80	6,250	5,000	12,500	41	
"	150; 5	367; 228	1,800	1,500		1938 R	"	480	"	"	1,875	1,500		42	
BP & PO	"	"	3,600	6,000		1950	"	2,300	"	"	7,500	6,000		43	
"	"	"	"	"		"	"	"	"	"	"	"		44	
"	"	"	"	"		"	"	"	"	"	"	"		45	
E & Cond.	400	650	3,600	3,000	14,500	1930	Air	2,400	60	80	3,750	3,000	14,500	46	
BP	600	750	6,000	2,500		1937	"	"	"	100	2,500	2,500		47	
Cond.	125	450	3,600	4,000		1948	"	2,300/4,000	"	80	5,000	4,000		48	
BP	750	750	"	5,000		1950	"	2,400/4,160	"	"	6,250	5,000		49	
"	"	"	"	"		"	"	"	"	"	"	"		50	

¹ See Internal Combustion Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 — Continued

No.	General plant data		Boilers					Prime movers	
	Name of plant	Location	Year placed in service	Steam conditions		Rated steam prod. M lb. per hr.	Fuel and method of firing	Cooling water source	Year placed in service
				PSIG	°F.				
	British Columbia—Continued								
	Eagle Lake Sawmills Ltd. ²								
1	Giscome	Giscome	1920	130	356	5	WR (D), O	Lake	1951
2			"	"	"	5	WR (D), O		
3			"	"	"	5	WR (D), O		
4			1917	"	"	5	WR (D), O		
5			"	"	"	5	WR (D), O		
6			1941	"	"	7	WR (D), O		
	Elk Falls Company Limited:								
7	Duncan Bay	Duncan Bay	1952	600	750	125	WR (S)	River	1952
8			"	"	"	125	WR (S)		
9			1957	"	"	220	BL, O		1958
	Hillcrest Lumber Co. Ltd.:								
10	Mesachie Lake	Mesachie Lake	1928	150	368	10	WR (D)	Lake	1948
11			1941	"	"	10	WR (D)		1932
12			"	"	"	10	WR (D)		1931
13			"	"	"	10	WR (D)		
14			1948	"	"	30	WR (D)		
15			1959	"	"	12	WR (D)		
16			1960	"	"	12	WR (D)		
	Macmillan & Bloedel & Powell River Ltd. ¹								
17	Albernie Pacific Division	Port Albernie	1941	250	..	35	O, WR	Sea	1954
18			"	"	..	35	O, WR		
19			1951	217	..	35	O, WR		
20			1954	"	..	35	O, WR		
21	Canadian White Pine Division	Vancouver	1940	200	388	14	WR (D)	River	1906
22			"	"	"	14	WR (D)		1910
23			1952	275	500	80	WR (D)		1935
24			1951	265	411	65	WR (S)		
25			1912	217	480	25	WR (D)		
26			1951	265	550	65	WR (S)		
27	Chemainus Division	Chemainus	1954	175	500	100	WR (S), O	River and Lake	1926
28			1926	160	371	14	WR (D), O		1952
29			"	"	"	14	WR (D), O		
30			"	"	"	14	WR (D), O		
31			"	"	"	14	WR (D), O		
32	Harmac Pulp Division	Harmac, Nanaimo	1950	675	500	85	WR (S), O	None	1954
33			"	"	"	85	WR (S), O		
34			1953	"	"	95	WR (S), O		
35			1950	"	"	130	BL, O		
36			1953	"	650	161	BL, O		
37	Powell River	Powell River	..	180	550	80	O	..	1948
38			"	"	"	80	O		1951
39			"	"	"	70	O		1960
40			"	"	"	45	O, WR		
41			"	"	"	50	O, WR		
42			1930	600	800	100	O, WR		
43			1951	"	"	180	O, WR		
44			1958	"	"	275	O		
45	Somass Division	Port Alberni	1947	200	450	40	WR (D)	Sea	1934
46			1934	"	"	35	WR (D)		
47			"	"	"	25	WR (D)		
48			"	"	"	25	WR (D)		
	Prince George Planing Mills Ltd.:								
49	Prince George	Prince George	1948	165	420	10	WR (D)	River	1949
50			"	"	"	10	WR (D)		1952

¹ See Hydro-Electric Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 -- Continued

Type	Prime movers					Main generators								
	Steam conditions		r.p.m.	Name plate rating max. cont. kw.	Total plant kw.	Year placed in service	Coolant	Name plate rating						No.
	PSIG	°F.						Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
Cond.	115	347	3,600	1,500	1,500	1951	Air	480	60	80	1,875	1,500	1,500	1 2 3 4 5 6
BP	600	750	3,600	1,750		1952	Air	555	DC	...	...	1,200		7
"	"	"	"	1,050		1958	"	250	"	...	...	400	1,600	8
"	"	"	5,000	1,400	4,200									9
Cond.	150	365	1,800	1,600*		"	Air	480	60	80	2,000	1,600		10
"	5	162	3,600	750*		"	"	"	"	"	957	750		11
"	150	365	150	260*	2,610*	"	"	450	"	"	325	260	2,610	12
														13
														14
														15
														16
Cond.	150	365	1,800	400	400	1954	Air	480	60	80	500	400	400	17
														18
														19
														20
Cond.	150	450	1,800	1,500		1906	Air	2,300	60	80	1,875	1,500		21
"	"	"	"	750		1910	"	"	"	"	937	750		22
"	"	565	3,600	4,000	6,250	1935	"	"	"	"	5,000	4,000	6,250	23
														24
														25
														26
Cond.	150	400	3,600	3,000		1926	Air	600	60	80	3,750	3,000		27
"	"	"	"	750	3,750	1952	"	"	"	"	937	750	3,750	28
														29
														30
														31
BP	325	650	4,706	1,250	1,250	1954	Air	550	60	80	1,563	1,250	1,250	32
														33
														34
														35
														36
BP	150	450	3,000	2,700		1948	Air	2,300	60	100	1,500	1,500		37
"	560	775	"	12,500		"	"	500	DC	...	...	1,200		38
"	150	450	"	2,000	17,200	1951	"	6,600	60	95	13,125	12,500		39
						"	"	2,300	"	100	3,000	3,000	18,200	40
														41
														42
														43
														44
Cond.	200	410	3,600	2,000	2,000	1934	Air	2,300	60	80	2,500	2,000	2,000	45
														46
														47
														48
Cond.	150	420	6,000	300		1949	Air	480	60	80	375	300		49
"	"	"	3,600	750	1,050	1952	"	"	"	"	926	750	1,050	50

* See Internal Combustion Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 — Concluded

No.	General plant data		Boilers					Prime movers	
	Name of plant	Location	Year placed in service	Steam conditions		Rated steam prod. M lb. per hr.	Fuel and method of firing	Cooling water source	Year placed in service
				PSIG	°F.				
	British Columbia — Concluded								
	Rayonier Canada (BC) Ltd.: ¹								
1	New Westminster	N. Westminster	1948	225	390	15	O, WR	River	1948
2			"	"	"	15	O, WR		
3			1958	170	353	6	O, WR		
4			1941	"	"	6	O, WR		
5	Port Alice Division	Port Alice	1937	160	400	25	O	Lake	1942
6			1940	"	"	25	O		1957
7			1949	600	725	185	O		1949
8			1952	"	"	185	O		"
9			1958	"	"	165	WR, O		
10	Woodfibre	Woodfibre	1948	550	725	100	O	River & Lake	1948
11			"	"	"	100	O, WR		"
12			"	"	"	100	O, WR		1961
13			1961	570	"	128	BL		
	S.M. Simpson Limited:								
14	Kelowna	Kelowna	1949	175	450	30	WR (D)	Lake	1941
15			1956	275	415	56	WR (S)		1947
16			1943	130	356	7	WR (D)		1955
17			1957	"	"	10	WR (D)		
18			1958	110	344	2	O		
	Westminster Paper Company Limited:								
19	New Westminster	New Westminster	1947	600	725	45	WR (D), O	"	1947
20									1953
21									
22									
23									
24	Total name plate rating of plants not listed	...	...	...	...	...	...	...	...
25	Total name plate rating in the province of B.C. ....	...	...	...	...	...	...	...	...
	Northwest Territories								
	Northern Canada Power Commission: ^{1,2}								
26	Inuvik	Inuvik	1957	500	550	30	O	"	1959
27			1959	"	"	30	O		
28			"	"	"	30	O		
29	Total name plate rating in Northwest Territories .....	...	...	...	...	...	...	...	...
30	Total name plate rating of all steam equipment in Canada .....	...	...	...	...	...	...	...	...

¹ See Hydro-Electric Equipment Section.

SECTION 2. Steam Equipment as at December 31, 1961 -- Concluded

Prime movers						Main generators									No.
Type	Steam conditions		r.p.m.	Name plate rating max. cont. kw.	Total plant kw.	Year placed in service	Coolant	Name plate rating							
	PSIG	*F.						Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.		
Cond.	225	390	6,200	300	300	1948	Air	460	60	80	375	300	300	1	
Cond. DE & Cond. BP "	150	380	3,600	3,200		1942	Air	2,400	60	80	4,000	3,200		2	
	600	725	"	6,000		1957	"	"	"	"	7,500	6,000		3	
	"	350	"	3,500		1949	"	"	"	"	4,350	3,500		4	
	"	480	"	3,500	16,200	"	"	"	"	"	4,350	3,500	16,200	5	
BP	550	725	3,600	2,000		1948	Air	4,160	60	80	2,500	2,000		6	
Cond.	"	"	"	2,000		"	"	"	"	"	2,500	2,000		7	
	"	"	"	3,300	7,300	1961	"	"	"	"	3,750	3,000	7,000	8	
														9	
Cond. " "	150	450	3,600	500		1941	Air	480	60	80	625	500		10	
	"	"	"	750		1947	"	"	"	"	1,128	750		11	
	"	"	"	2,000	3,250	1955	"	2,300	"	"	2,500	2,000	3,250	12	
														13	
BP " "	575	725	4,020	500		1947	"	250	DC	...	...	250		14
	"	"	4,295	615	1,115	"	"	2,200	60	80	300	240		15	
						1953	"	250	DC	...	...	50		16
						"	"	"	"	...	...	400		17
...	...	...	...	...	350	...	...	2,200	60	80	500	400	1,340	18
														19	
														20	
...	...	...	...	...	146,275	...	...	...	...	...	175,291	...	145,100	21
BP	490	540	4,000	600	600	1959	Air	2,400/4,160	60	85	705	600	600	22	
														23	
														24	
														25	
...	...	...	...	...	600	...	...	...	...	...	705	...	600	26
...	...	...	...	...	4,360,938	...	...	...	...	...	5,134,010	...	4,310,475	27
														28	
														29	
														30	

¹ See Internal Combustion Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961

No.	General plant data		Prime movers				
	Name of plant	Location	Year placed in service	Type of engine	Type of fuel used	Cycle	Super charged
Newfoundland							
1	Burgeo Fish Industries Ltd.:						
2	Burgeo	Burgeo	1949 1955	Diesel "	O "	2 "	Yes "
3	Department of Transport:						
4	Gander Airport.....	Gander	1948 1953 1957	Diesel " "	O " "	2 " "	No " "
5							
6	Maritimes Mining Corporation Limited: ¹						
7	Diesel Plant	Tilt Cove	1957 " " "	Diesel " " "	O " " "	4 " " "	Yes " " "
8							
9							
10							
11	Newfoundland Light & Power Co.: ^{1,2}						
12	Badger	Badger	1960 " 1961	Diesel " "	O " "	4 " "	No " Yes
13							
14	Baie Verte	Bai Verte	1960 1961	Diesel "	O "	4 "	Yes "
15							
16	St. John's.....	St. John's	1953	Diesel	O	2	No
17	Newfoundland Power Commission:						
18	Trepassey	Trepassey	1960 " 1961	Diesel " "	O " "	 " "	No " "
19							
20							
21	Union Electric Light and Power Co.: ¹						
22	Clarenville.....	Clarenville	1961 " " "	Turbine " " "	DO " " "	 " " "	 " " "
23							
24							
25	Port Union.....	Port Union	1946 1961	Diesel Turbine	DO "	 4	 "
26							
27	United Towns Electric Co.: ¹						
28	Grand Bank	Grand Bank	1956 1959	Diesel "	O O	4 4	No Yes
29	Westcoast Power Co. Ltd.: ¹						
30	Port aux Basques	Port aux Basques	1957 1945 1958 1949 1954	Diesel " " " "	O " " " "	4 2 4 " "	Yes No Yes No "
31							
32							
33							
34	Total name plate rating of plants not listed above .....	...	...	...	...	...	...
35	Total name plate rating in province of Newfoundland....	...	...	...	...	...	...
Prince Edward Island							
36	Scales Hydro Electric Ltd.: ¹						
	Freetown	Freetown	1947	Diesel	O	4	..
37	Summerside, Municipality of:						
38	Summerside	Summerside	1940 " 1941 1947 1950 1960	Diesel " " " " "	DO " " " " RO	2 " " " " 4	No " " " " Yes
39							
40							
41							
42							
43	Total name plate rating in province of Prince Edward Island .....	...	...	...	...	...	...

¹ See Hydro-Electric Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961

Prime movers					Main generators							No.
No. of cylinders	r.p.m.	Name plate rating			Year placed in service	Name plate rating						
		h.p.	kw.	Total plant kw.		Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
8 "	1,200 "	500 500	300 300	600	1949 1955	240 "	60 "	80 "	375 375	300 300	600	1 2
7 "	300 "	1,470 1,470 1,470	1,000 1,000 1,000	3,000	1948 1953 1957	2,300 " "	60 " "	80 " "	1,250 1,250 1,250	1,000 1,000 1,000	3,000 ^S	3 4 5
12 " " 8 "	720 " " " "	1,368 1,368 1,368 728 728	950 950 950 500 500	3,850	1957 " " " "	2,300 " " " "	60 " " " "	85 " " " "	1,118* 1,118* 1,118* 625* 625*	950 950 950 500 500	3,850	6 7 8 9 10
4 " 6 " 6 " 8	900 " 1,800 1,800 225	80 80 155 155 3,580	60* 60* 116* 116* 2,671*	236 232	1960 1961 1960 1961 1956	550 " " 550 6,900	60 " " 60 60	80 " " 80 80	63 63 125 125 3,125	50 50 100 100 2,500	200 200 2,500	11 12 13 14 15 16
4 4 4 6	1,800 " " "	48 48 48 140	36* 36* 36* 104*	212	1960 " " 1961	600 " " "	60 " " "	80 " " "	37 37 37 125	30 30 30 100	190	17 18 19 20
8 " " 6 " " 12 "	900 " " " " 1,200	167 146 150 120 167 750	100 80 85 60 112* 500	325	1961 " " " 1946 1961	2,400 " " " 2,400 "	60 " " " 60 "	80* " " " 80* "	125 100 85 75 140* 625	100 80 85 60 112 500	325 612	21 22 23 24 25 26
12 "	1,200 "	364 450	250 315	565	1956 1959	2,400 "	60 "	80 "	313 394	250 315	565	27 28
12 8 12 " " "	1,200 900 1,200 " " "	505 110 505 320 320	350 85 350 250 250	1,285	1957 1945 1958 1949 1954	2,400 " " " "	60 " " " "	80 " " " "	505 106 438 295 313	350 85 350 250 250	1,285	29 30 31 32 33
...	...	...	...	4,700	...	...	...	...	5,445	.	4,700	34
...	...	...	...	18,288	...	...	...	...	21,925	...	18,027	35
8	900	134	100	100	1947	2,300	60	83*	120*	100	100	36
4 5 " 7 10 12	300 " " " 720 450	300 375 375 805 1,600 3,240	200 250 250 555 1,136 2,250	4,641	1940 " 1941 1947 1950 1960	2,400 " " " 2,400/4,160 "	60 " " " " "	80 " " " " "	250 312 312 555 1,420 2,800	200 250 250 555 1,136 2,250	4,641	37 38 39 40 41 42
...	...	...	...	4,741	...	...	...	...	5,909	...	4,741	43

^S See Steam Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 — Continued

No.	General plant data		Prime movers				
	Name of plant	Location	Year placed in service	Type of engine	Type of fuel used	Cycle	Super charged
	Nova Scotia						
	Nova Scotia Power Commission: ^{1,2}						
1	Cheticamp.....	Cheticamp	1952	Diesel	O	4	No
2			"	"	"	"	"
3	Ingonish	Ingonish	"	Diesel	O	4	No
4			"	"	"	"	"
5			"	"	"	"	"
6	Portable Units .....	...	1959	Diesel	G	4	Yes
7			"	"	"	"	"
	Sydney Engineering & Dry Dock Co. Ltd.:						
8	Anderson's Plant.....	Sydney	1937	Diesel	O	4	No
9			"	"	"	"	"
10			1950	"	"	"	"
	Western Nova Scotia Electric Co. Ltd.:						
11	King Street	Yarmouth	1937	Diesel	O	4	No
12			1940	"	"	"	Yes
13			1947	"	"	"	"
14			1948	"	"	"	"
15	Total name plate rating of plants not listed above .....	...	...	...	...	...	...
16	Total name plate rating in province of Nova Scotia.....	...	...	...	...	...	...
	New Brunswick						
	Campbellton, City of:						
17	Campbellton	Campbellton	1946	Diesel	O	2	No
18			1947	"	"	"	"
19			1953	"	"	"	"
	Edmundston, City of: ¹						
20	Edmundston	Edmundston	1947	Diesel	O	2	No
21			"	"	"	"	"
22			1955	"	RO	"	"
	Maine & New Brunswick Electric Power Co. Ltd. ¹						
23	Tinker	Aroostook Junction	1949	Diesel	O	4	Yes
	New Brunswick Electric Power Commission: ^{1,2}						
24	Grand Harbour	Grand Manan	1957	Diesel	O	2	No
25			1947	"	"	"	"
26			1949	"	"	4	"
27			1961	"	"	"	"
28	Total name plate rating of plants not listed above .....	...	...	...	...	...	...
29	Total name plate rating in province of New Brunswick	...	...	...	...	...	...
	Quebec						
	Bonaventure, Co-op d'Électricité de: ¹						
30	New Richmond	New Richmond	1948	Diesel	O	4	Yes
31			1949	"	"	"	"
32			1950	"	"	"	"
33			1951	"	"	"	"
34			1955	"	"	2	"
	Canadian International Paper Co., ^{1,2}						
35	Clova	Clova	1946	Diesel	O	2	No
36			"	"	"	"	"
	Canadian National Railways:						
37	Parent	Parent	1949*	Diesel	"	"	"
	Coaticook, Ville de: ¹						
38	Coaticook	Coaticook	1941	Diesel	O	2	"
	Consolidated Paper Corporation Limited: ¹						
39	Port Menier.....	Anticosti Island	1946	Diesel	O	4	Yes
40			"	"	"	"	"
41			"	"	"	"	"
42			1952	"	"	"	"
	A. Couturier & Fils Ltée.:						
43	Marsoui	Marsoui	1959	Diesel	DO	"	"

¹ See Hydro-Electric Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 - Continued

Prime movers					Main generators							No.
No. of cylinders	r.p.m.	Name plate rating			Year placed in service	Name plate rating						
		h.p.	kw.	Total plant kw.		Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
6	1,600	160	119*		1952	2,400	60	80	250	200	200	1
12	900	360	269*		..	2,300	60	80	281	225		2
6	1,800	175	131*	669	..	..	..	..	281	225		3
6	1,800	175	131*		1959	2,400	60	80	150	120	570	4
..	..	175	131*	262	..	..	..	..	156*	125		5
..	..	..	..		..	..	..	..	156*	125	250	6
4	680	65	48*		1937	220	60	80	63	50		7
6	900	500	373*	469	1950	500	..	..	63	50		8
..	..	..	..		..	..	..	..	375	300	400	9
6	450	450	336*		1937	2,400	60	80	400	320		10
8	600	640	477*		1940	..	..	..	500	400		11
..	450	900	671*		1947	..	..	..	750	600		12
..	..	900	671*	2,155	1948	..	..	..	750	600	1,920	13
...	...	...	...	6,950	...	...	...	...	8,691	...	6,950	14
...	...	...	...	10,743	...	...	...	...	12,866	...	10,290	15
6	257	360	240		1946	2,400/4,160	60	80	300	240		16
10	720	1,600	1,136		1947	..	..	..	1,420	1,136		17
12	..	1,920	1,360	2,736	1953	..	..	..	1,700	1,360	2,736	18
..	..	..	..		..	..	..	..	..	..		19
5	300	1,000	690		1947	2,400	60	80	863	690		20
..	..	1,000	690		..	..	..	..	863	690		21
..	257	2,400	1,700	3,080	1955	2,400/4,160	..	..	2,345	1,700	3,080	22
8	360	1,440	1,000	1,000	1949	2,400	60	80	1,250	1,000	1,000	23
4	300	300	200		1957	600	60	80	250	200		24
5	..	375	250		1947	2,400	..	..	312	250		25
8	514	400	300		1949	2,300	..	..	375	300		26
5	300	375	250	1,000	1948	480	..	..	300	240	990	27
...	...	...	...	1,000	...	...	...	...	1,248	...	1,000	28
...	...	...	...	8,816	...	...	...	...	11,226	...	8,806	29
4	600	320	200		1948	2,400	60	80	250	200		30
7	..	560	350		1949	..	..	..	438	350		31
..	..	560	350		1950	..	..	..	438	350		32
8	..	640	400		1951	..	..	..	500	400		33
12	720	1,000	750	2,050	1955	..	..	..	938	750	2,050	34
3	450	90	59		1946	2,400	60	80	74	59		35
..	..	90	59	118	..	..	..	..	74	59	118	36
..	600	280	210*	210	1949	600	60	80	219	175	175	37
6	400	600	448*	448	1941	2,300/4,000	60	85	525	450	450	38
6	1,200	150	68		1946	2,300	60	80	85	68		39
..	..	150	68		..	..	..	..	85	68		40
..	..	150	68		..	..	..	..	85	68		41
..	..	150	68	272	1952	..	..	..	85	68	272	42
8	1,200	235*	175*	175	1959	600	60	80*	219	175	175	43

¹ See Steam Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 — Continued

No.	General plant data		Prime movers				
	Name of plant	Location	Year placed in service	Type of engine	Type of fuel used	Cycle	Super charged
	Quebec — Continued						
1	Gaspé Copper Mines Ltd.: ¹						
2	Murdochville	Murdochville	1953	Diesel	O	2	No
3			1954	"	"	"	"
			1952	"	"	4	"
4	Gaspé-Nord, Coopérative d'Électricité de: ¹						
5	Mount Louis	Mount Louis	"	Diesel	DO	2	"
6			"	"	"	"	"
			"	"	"	"	"
7	Gaspé-Sud, Coopérative d'Électricité de:						
8	Sandy Beach	Gaspé Sud	1954	Diesel	O	2	Yes
			1951	"	"	4	"
9	Golfe St-Laurent, la Coopérative d'Électricité de:						
10	Magpie	Rivière Magpie	1949	Diesel	O	4	No
11			"	"	"	"	"
12			1955	"	"	"	"
			1958	"	"	"	"
13	Îles-de-la-Madeleine, Coopérative d'Électricité:						
14	Cap aux Meules	Iles-de-la-Madeleine	1953	Diesel	C	2	No
15			"	"	"	"	"
16			1958	"	"	"	"
			1960	"	"	"	"
17	Iron Ore Company of Canada: ¹						
18	Mobile Rail Car # 10	Schefferville	1956	Diesel	O	2	Yes
19	Mobile Rail Car # 11	Schefferville	1956	Diesel	O	2	Yes
	Mobile Rail Car # 12	Schefferville	1956	Diesel	O	2	Yes
20	Lac Édouard, Coopérative d'Électricité du:						
21	Lac Édouard	Lac Edouard	1952	Diesel	O	2	No
			"	"	"	"	"
22	Lower St. Lawrence Power Co.: ¹						
23	Rimouski	Rimouski	1948	Diesel	O	2	Yes
24			"	"	"	"	"
25			1952	"	"	"	"
			"	"	"	"	"
26	Mont Laurier Ltée, Électrique de: ¹						
27	Belle Rive Veneer	Mont Laurier	1961	Diesel	O	2	"
			"	"	"	"	"
28	Val Barrette	Kiamika	"	Diesel	"	"	"
			"	"	"	"	"
29	Quebec Cartier Mining Co.:						
30	Lac Jeannine	Gagnon	1960	Diesel	O	4	Yes
31			"	"	"	"	"
32			"	"	"	2	"
33			"	"	"	"	"
34	Port and Terminal	Port Cartier	1960	Diesel	O	2	Yes
35			"	"	"	"	"
36			"	"	"	"	"
37			"	"	"	4	"
38	Quebec Hydro Electric Comm.: ^{1,3}						
39	Les Boules	Les Boules	1955	Diesel	O	2	Yes
40			"	"	"	"	"
41			"	"	"	"	"
42	Gaspé	Gaspé	1960	Diesel	O	2	Yes
43			1959	"	"	"	"
44			"	"	"	"	"
45	Manicouagan	Manicouagan	1955	Diesel	O	2	Yes
46			"	"	"	"	"
47			"	"	"	"	"
48	Montreal	Montreal	1955	Diesel	O	2	Yes
49	Murdochville	Murdochville	1955	Diesel	O	2	Yes
50			1960	"	"	"	"
51			1959	"	"	"	"

¹ See Hydro-Electric Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 - Continued

Prime movers					Main generators							No.
No. of cylinders	r.p.m.	Name plate rating			Year placed in service	Name plate rating						
		h.p.	kw.	Total plant kw.		Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
10 " "	120 " 600	1,600 1,600 440	1,000 1,000 300	 2,300	1953 1954 1952	2,200 2,300 2,400	60 " "	80 " "	1,200 1,200 375	1,000 1,000 300	 2,300	1 2 3
6 " 12	900 " 660	100 100 1,000	75 75 750	 900	 " "	 " "	60 " "	80* " "	94* 94* 938*	75 75 750	 900	4 5 6
12 10	750 514	1,000* 400*	750 300	1,050	1954 1951	 "	60 "	80* "	1,170* 470*	937 375	1,312	7 8
3 " 6 "	720 " 1,200 "	93 93 69 69	75 75 55 55	 260	1949 " 1955 1958	2,400 " " "	60 " " "	80 " " "	93 93 69 69	75 75 55 55	 260	9 10 11 12
6 " 12 "	514 " 600 900	360 360 612 1,520	250 250 400 1,065	 1,965	1953 " 1958 1960	2,300 " " "	60 " " "	80 " " "	312 312 500 1,340	250 250 400 1,065	1,965	13 14 15 16
16 16 16	720 720 720	1,440 1,440 1,440	1,075* 1,075* 1,075*	1,075 1,075 1,075	1956 1956 1956	4,160 4,160 4,160	60 60 60	80 80 80	1,250 1,250 1,250	1,000 1,000 1,000	1,000 1,000 1,000	17 18 19
Twin 6 " "	1,600 " "	260 260	175 175	 350	1952 "	600 "	60 "	80 "	219 219	175 175	350	20 21
16 " " "	720 " " "	1,700 1,700 1,700 1,700	1,000 1,000 1,000 1,000	 4,000	1947 " 1951 "	4,000 " " "	60 " " "	80 100 80 "	1,250 1,250 1,375 1,375	1,000 1,250 1,100 1,100	4,450	22 23 24 25
8 " "	1,200 " "	565 565 235*	350 350 175	 700 175	1961 " "	2,400 " "	60 " 60	80 " 80*	438 438 219*	350 350 175	700 175	26 27 28
12 " " 16 " 16 " 16 " 12	1,200 " " 720 " 720 " 720 1,200	530 530 530 1,440 1,440 1,440 1,440 530	350 350 350 1,000 1,000 1,000 1,000 350	 3,050 3,350	1960 " " 1960 " " "	4,160 " " 4,160 " " "	60 " " 60 " " "	80 " " 80 " " "	438 438 438 1,250 1,250 1,250 438	350 350 350 1,000 1,000 1,000 350	3,050 ^S 3,350 ^S	29 30 31 32 33 34 35 36 37
16 " " 16 " 16 " 16 "	720 " " 720 " 720 " 720	1,440 1,440 1,440 1,440 1,450 1,450 1,450	1,000 1,000 1,000 1,000 1,000 1,000 1,000	 4,000 3,000 1,000	1955 " " 1960 1959 1955 "	2,400/4,160 " " 2,400/4,160 " " 2,400/4,160 "	60 " " 60 " " 60	85 " " 85 " " 85	1,250 1,250 1,250 1,250 1,250 1,250	1,000 1,000 1,000 1,000 1,000 1,000	4,000 3,000 1,000	38 39 40 41 42 43 44
16 " 16 "	720 " 720	1,450 1,450 1,450	1,000 1,000 1,000	 3,000 1,000	1955 " 1955	2,400/4,160 " "	60 " "	85 " "	1,250 1,250 1,250	1,000 1,000 1,000	1,000 3,000	45 46 47
16 " "	720 " "	1,450 1,450 1,450	1,000 1,000 1,000	 3,000 3,000	1955 1960 1959	2,400/4,160 " "	60 " "	85 " "	1,250 1,250 1,250	1,000 1,000 1,000	1,000 3,000 3,000	48 49 50 51

^S See Gas Turbine Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 — Continued

No.	General plant data		Prime movers				
	Name of plant	Location	Year placed in service	Type of engine	Type of fuel used	Cycle	Super charged
	Quebec — Concluded						
	Quebec Hydro-Electric Comm.: ^{1,2} — Concluded:						
1	Rimouski	Rimouski	1959	Diesel	O	2	Yes
2			1960	"	"	"	"
3			1955	"	"	"	"
4			1959	"	"	"	"
5			"	"	"	"	"
6			1955	"	"	"	"
	Rivière-du-Loup, Cité de: ¹						
7	Rivière-du-Loup	Rivière-du-Loup	1953	Diesel	O	2	No
8			1947	"	"	"	"
9			"	"	"	"	"
	Romaine Electric Company:						
10	Havre St. Pierre	Havre St. Pierre	1949	Diesel	O	4	Yes
11			1951	"	"	"	"
12			"	"	"	"	"
13	Total name plate rating of companies not listed above..	...	...	...	...	...	...
14	Total name plate rating in province of Quebec .....	...	...	...	...	...	...
	Ontario						
	Algoma Steel Corporation Limited: ²						
15	Sault-Ste-Marie	Sault-Ste-Marie	1912	Spark	BG	4	No
16			"	"	"	"	"
17			"	"	"	"	"
	Brockville Public Utilities Commission:						
18	Brockville	Brockville	1949	Diesel	O	4	No
	Canadian General Electric Co. Ltd.: ^{1,2}						
19	Peterborough Works	Peterborough	1949	Diesel	O	2	"
20			"	"	"	"	"
	Canadian National Railways:						
21	Armstrong	Thunder Bay	1958	Diesel	O	2	No
22			1959	"	"	"	"
	Chapleau Electric Light and Power Co. Ltd.: ¹						
23	Chapleau	Chapleau	1961	Diesel	DO	4	No
	Falconbridge Nickel Mines:						
24	Hardy Mines	Onaping	1959	Diesel	O	2	Yes
	Fenelon Falls Board of Water Light & Power: ¹						
25	Fenelon Falls	Fenelon Falls	1949	Diesel	O	4	No
	Gananoque Electric Light and Power Company: ¹						
26	Gananoque	Gananoque	1956	Diesel	O	2	"
27			"	"	"	"	"
28	Station #6	N. Gananoque	1959	Dual Diesel	NG	4	Yes
29			"	"	"	"	"
	General Motors (Diesel) Ltd.:						
30	London	London	1954	Diesel	DO	2	No
31			"	"	"	"	"
	Hydro-Electric Power Commission of Ontario: ^{1,2}						
32	Chapleau	Chapleau	1955	Diesel	O	4	No
33			1960	"	"	"	Yes
34	Hornepayne	Hornepayne	1955	Diesel	O	2	No
35			"	"	"	"	"
36			1956	"	"	"	"
37			1957	"	"	4	"
	McFadden Lumber (Division of Huron Forest Products):						
38	Sultan	Sultan	1960	Diesel	O	4	Yes
39			"	"	"	"	"
	Madsen Red Lake Gold Mines Ltd.:						
40	Madsen	Madsen	1947	Diesel	O	2	No

¹ See Hydro-Electric Equipment Section.² See Steam Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 - Continued

Prime movers					Main generators							No.
No. of cylinders	r.p.m.	Name plate rating			Year placed in service	Name plate rating						
		h.p.	kw.	Total plant kw.		Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
16 " " " " "	720 " " " " "	1,450 1,450 1,450 1,450 1,450	1,000 1,000 1,000 1,000 1,000	6,000	1959 1960 1955 1959 1955	2,400/4,160 " " " " "	60 " " " " "	85 " " " " "	1,250 1,250 1,250 1,250 1,250	1,000 1,000 1,000 1,000 1,000	6,000	
12 6 "	720 257 "	1,920 350 350	1,360 240 240	1,840	1953 1947 "	2,400 " "	60 " "	80 " "	1,700 300 300	1,360 240 240	1,840	
6 " "	600 " "	480 480 480	300 300 300	900	1949 " 1951	600 " 2,300	60 " "	80 " "	375 375 375	300 300 300	900	
...	...	...	...	14,385	...	...	...	...	17,887	...	14,385
...	...	...	...	61,723	...	...	...	...	71,191	...	62,177
4 " "	107 " "	1,850 1,850 1,850	1,500 1,500 1,500	4,500	1912 " "	2,300 " "	60 " "	80* " "	1,875* 1,875* 1,875*	1,500 1,500 1,500	4,500	
16	750	1,700	1,268*	1,268*	1949	2,400	60	80*	1,250	1,000	1,000 ^S	
16 "	750 "	1,440 1,440	1,074* 1,074*	2,148*	1949 "	6,600 "	60 "	90 "	1,100 1,100	1,000 1,000	2,000	
2 3	273 "	109 164	100 125	225	1958 1959	550 "	60 "	80 "	125 156	100 125	225	
8	1,200	375	250	250	1961	2,300	60	80	312	250	250	
16	720	1,440	1,000	1,000	1959	2,300	60	80	1,250	1,000	1,000	
6	900	160	125	125	1949	600	60	80	156	125	125	
12 " "	1,800 " "	268* 268*	200 200	400	" "	550 "	60 "	80 "	250 250	200 200	400	
8 " "	450 " "	2,000 2,000	1,360 1,360	2,720	1959 "	4,160 "	60 "	80 "	1,700 1,700	1,360 1,360	2,720	
6 "	1,800 "	227 227	150 150	300	1954 "	440 "	60 "	80 "	188 188	150 150	300 ^S	
8 6	514 1,800	730 134*	500 100	600	1955 1960	2,400 600	60 "	90 80	556 125	500 100	600	
Twin 6 " "	1,680 " "	260 260 260	175 175 200		1955 " 1956	600 " "	60 " "	80 " "	219 219 250	175 175 200		
8	514	730	500	1,050	1957	2,400	"	90	556	500	1,050	
6 8	1,800 1,200	200 286	150 208	358	1960 "	600 "	60 "	80 "	187 250	150 200	350	
6	300	360	270*	270	1947	2,200	60	80	312	250	250 ^S	

^S See Gas Turbine Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 — Continued

No.	General plant data		Prime movers				
	Name of plant	Location	Year placed in service	Type of engine	Type of fuel used	Cycle	Super charged
	Ontario — Concluded						
	Ontario Northland Railway:						
1	Townsite.....	Moosonee	1955	Diesel	O	4	No
2			1957	"	"	"	"
3			1955	"	"	"	"
4			1958	"	"	"	"
	Orillia Water Light and Power Commission: ¹						
5	Orillia	Orillia	..	Diesel	O	2	Yes
6			..	"	"	"	"
	Pembroke Electric Light Co. Limited:						
7	Pembroke	Pembroke	1929	Diesel	O	2	No
8			1949	"	"	"	Yes
9			"	"	"	"	"
	Sheppard and Morse Ltd.: ²						
10	Township 11-H	Sudbury Dist.	1950	Diesel	O	4	No
11			1960	"	"	"	"
	Staniforth Lumber & Veneer: ²						
12	Kiosk Mill.....	Kiosk	1957	Diesel	O	2	No
13	Total name plate rating of companies not listed above ....	...	...	...	...	...	...
14	Total name plate rating in province of Ontario.....	...	...	...	...	...	...
	Manitoba						
	Canada Cement Co.:						
15	Steep Rock	Steep Rock	1948	Diesel	O	2	..
	Canadian National Railways:						
16	Gillam	Gillam	1957	Diesel	O	4	No
	Canadian National Telecommunications:						
17	Wabowden	Wabowden	1958	Diesel	O	4	No
18			"	"	"	"	"
	Manitoba Hydro: ^{1,2}						
19	Grand Rapids	Grand Rapids	1960	Diesel	O	4	Yes
20	(Construction Unit)		1961	"	"	"	"
21			"	"	"	"	"
22	(Rail Unit)		"	"	"	2	"
23	The Pas	The Pas	1948	Diesel	O	4	No
24			1954	"	"	2	Yes
25			1958	"	"	"	"
26			1959	"	"	4	"
27	(Rail Unit)		1960	"	"	2	"
28	Selkirk	Selkirk	1960	Diesel	O	4	No
	The National Harbours Board: ²						
29	Churchill.....	Churchill	1950	Diesel	DO	4	No
30			1954	"	"	"	"
	Sherritt Gordon Mines Limited: ¹						
31	Lynn Lake	Lynn Lake	1955	Diesel	O	4	No
32			1956	"	"	"	"
33			1961	"	"	"	"
34	Total nameplate rating of companies not listed above ....	...	...	...	...	...	...
35	Total name plate rating in province of Manitoba .....	...	...	...	...	...	...
	Saskatchewan						
	Dominion Fire Brick & Clay Products:						
36	Clay Bank.....	Clay Bank	1929	Diesel	DO	4	No
37			1941	"	"	"	"
38			"	"	"	"	"

¹ See Hydro-Electric Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 -- Continued

Prime movers					Main generators						
No. of cylinders	r.p.m.	Name plate rating			Year placed in service	Name plate rating					No.
		h.p.	kw.	Total plant kw.		Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant Kw.
6	1,200	76	50		1955	550	60	80	60	50	1
"	"	76	50		1957	"	"	"	60	50	2
"	"	69	50		1955	"	"	"	60	50	3
"	"	184	100	250	1958	"	"	"	125	100	4
10	720	1,800	1,000		"	2,300/4,000	60	80	1,250	1,000	5
"	"	1,600	1,136	2,136	"	"	"	"	1,420	1,136	6
6	200	12,500	865		1929	2,500	60	85	1,094	865	7
12	720	900	670		1949	"	"	"	800	670	8
"	"	900	670	2,205	"	"	"	"	800	670	9
6	1,450	96	72		1950	208/120	60	80	50	40 ^S	10
4	1,200	103	78	150	1960	"	"	"	94	75	11
6	1,600	250	125	125	1949	600	60	80	156	125	12
...	...	...	...	22,350	...	...	...	...	28,296	...	13
...	...	...	...	42,430	...	...	...	...	52,289	...	14
7	300	805	600*	600	1948	2,400	60	80	695	556	15
4	1,200	119	75	75	1957	2,400	60	80	94	75	16
6	1,200	53	40*		1958	110/220	60	80	16	13	17
"	"	53	40*	80	"	"	"	"	16	13	18
6	1,800	225	150		1960	600	60	80	187	150	19
12	1,200	525	350		1961	"	"	90	389	350	20
8	"	525	350		"	"	"	"	389	350	21
16	720	1,440	1,000	1,850	"	2,400/4,160	"	80	1,250	1,000	22
6	360	582	400		1948	2,400	60	80	500	400	23
16	720	1,440	1,000		1954	2,400/4,160	"	"	1,250	1,000	24
"	"	1,440	1,000		1958	"	"	"	1,250	1,000	25
12	"	1,092	750		1959	"	"	"	964	750	26
16	"	1,440	1,000	4,150	1960	"	"	"	1,250	1,000	27
16	1,800	495	350	350	1960	600	60	80	436	350	28
6	600	284	180		1950	600	60	80	250	2	29
8	"	360	275	455	1955	550	"	"	312	2	30
16	720	1,340	1,000		1955	2,400/4,160	60	80	1,340	1,000	31
9	240	3,060	2,160		1956	"	"	"	2,700	2,160	32
12	1,200	202	170	3,330	1961	600/480	"	"	219	170	33
...	...	...	...	9,154	...	...	...	...	11,024	...	34
...	...	...	...	20,044	...	...	...	...	24,531	...	35
4	514	75	56*		1929	220	60	80*	50*	40	36
"	900	100	75*		1941	"	"	"	156*	125	37
"	"	100	75*	206	"	"	"	"	"	"	38

¹ See Steam Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 — Continued

No.	General plant data		Prime movers				
	Name of plant	Location	Year placed in service	Type of engine	Type of fuel used	Cycle	Super charged
	Saskatchewan — Concluded						
	Eldorado Mining & Refining Ltd.: ¹						
1	Eldorado	Eldorado	1952	Diesel	R, O	2	..
2	(see also N.W.T.) .....		..	..	..	..	..
3			..	..	..	..	..
4			..	..	..	..	..
5			..	..	..	..	..
6			1956	..	..	4	Yes
7			..	..	..	..	..
8			..	..	..	..	..
9			..	..	..	..	..
	Saskatchewan Power Corporation: ^{2,3}						
10	Kindersley	Kindersley	1955	Spark	N, G	4	Yes
11			..	..	..	..	..
12			1956	..	..	..	..
13	La Ronge	La Ronge	1953	Diesel	O	4	No
14			1957	..	..	..	..
15			1955	..	..	..	..
16			1954	..	..	..	..
17			1959	..	..	..	..
18			1960	..	D	..	..
19	Mobile Unit # 2	Meadow Lake	1958	Diesel	O	2	No
20	Swift Current	Swift Current	1954	Diesel	D	4	Yes
21			..	..	..	..	..
22			1955	..	..	..	..
23			1956	..	..	..	..
24			..	..	..	..	..
25			1957	..	..	..	..
26	Unity	Unity	1949	Diesel	D	4	Yes
27			1948	Spark	N, G	2	No
28			..	..	..	..	..
29			1952	..	..	4	Yes
30			1953	..	..	..	..
	Sifto Salt Ltd.: ²						
31	Unity	Unity	1957	Diesel	D	4	No
32			1948	Gasoline	G	..	..
	Uranium City Power Co. Ltd.:						
33	Uranium City	Uranium City	1955	Diesel	O	4	No
34			1959	..	..	..	Yes
35	Total name plate rating in province of Saskatchewan ...	...	...	...	...	...	...
	Alberta						
	Calgary Power Ltd.: ^{1,2}						
36	Edson	Edson	1945	Diesel	O	2	No
37			..	..	..	..	..
38			1948	..	..	..	..
39			1953	..	..	..	..
	Canadian Utilities Ltd.: ^{2,3}						
40	Anzac	Anzac	1960	Diesel	O	4	No
41			..	..	..	..	..
42	Fairview ⁴	Fairview	1954	Spark	N, G	4	Yes
43	Fort Chipewyan	F. Chipewyan	1959	Diesel	O	4	..
44			..	..	..	..	..
45			1961	..	..	..	No
46	Grand Prairie	Grand Prairie	1950	Diesel	O	4	No
47			1948	..	D	..	..
48			1955	Spark	N, G	..	..
49	Simonette	Simonette	1960	Diesel	O	4	Yes
50	Smith	Smith	1961	Diesel	O	4	No
51	(see B.C. also)		1959	..	..	..	Yes

¹ See Hydro-Electric Equipment Section.² See Steam Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 - Continued

Prime movers					Main generators								No.
No. of cylinders	r.p.m.	Name plate rating			Year placed in service	Name plate rating							
		h.p.	kw.	Total plant kw.		Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.		
5	300	575	429*		1952	2,300	60	80	490	392		1	
"	"	575	429*		"	"	"	"	490	392		2	
"	"	575	429*		"	"	"	"	490	392		3	
"	"	550	410*		"	"	"	"	478	382		4	
"	"	550	410*		"	"	"	"	478	382		5	
12	327	3,200	2,387*		1956	"	"	"	2,812	2,250		6	
"	"	3,200	2,387*		"	"	"	"	2,812	2,250		7	
"	"	3,200	2,387*		"	"	"	"	2,812	2,250		8	
"	"	3,200	2,387*	11,655	"	"	"	"	2,812	2,250	10,940	9	
16	327	4,240	3,000		1955	2,400/4,160	60	80	3,750	3,000		10	
"	"	4,240	3,000		"	"	"	"	3,750	3,000		11	
"	"	4,240	3,000	9,000	1956	"	"	"	3,750	3,000	9,000	12	
2	300	80	50		1953	2,300	60	80	63	50		13	
8	900	132	85		1957	2,400	"	"	106	85		14	
"	"	153	100		1955	2,300	"	"	125	100		15	
5	"	87	50		1954	"	"	"	63	50		16	
8	600	160	96		1959	2,400	"	"	125	100		17	
6	400	505	350	731	1960	2,300/2,400	"	"	438	350	735	18	
16	720	1,440	1,000	1,000	1958	2,400/4,160	60	80	1,250	1,000	1,000	19	
8	327	1,783	1,240		1954	2,400/4,160	60	80	1,594	1,275		20	
"	"	1,783	1,240		"	"	"	"	1,594	1,275		21	
16	"	4,240	3,000		1955	"	"	"	3,750	3,000		22	
"	"	4,240	3,000		1956	"	"	"	3,750	3,000		23	
"	"	4,240	3,000		"	"	"	"	3,750	3,000		24	
"	"	4,240	3,000	14,480	1957	"	"	"	3,750	3,000	14,550	25	
8	450	1,200	800		1949	2,400/4,160	60	80	1,000	800		26	
"	327	800	500		1948	2,400	"	"	625	500		27	
"	"	800	500		"	"	"	"	625	500		28	
12	"	2,700	1,970		1952	2,400/4,160	"	"	2,500	2,000		29	
16	"	3,600	2,500	6,270	1953	"	"	"	3,125	2,500	6,300	30	
6	1,400	100	75*		1957	2,300	60	80	63	50		31	
4	1,800	20	15*	90	1948	110	"	"	9*	7	57	32	
6	600	250	150		1955	600	60	80	187	150		33	
8	"	750	500	650	1959	4,160	"	"	625	500	650	34	
...	...	...	...	44,082	...	...	...	...	54,247	...	43,397	35
2	360	120	90		1945	2,400	60	80	96	97		36	
3	300	225	168		"	"	"	"	185	148		37	
6	"	450	335		1948	"	"	"	375	300		38	
"	720	960	716	1,309	1953	"	"	"	843	675	1,200	39	
4	1,800	51	30		1960	120/208	60	80	38	30		40	
"	1,200	30	18	48	"	"	"	"	21	18	48	41	
8	327	1,730	1,300	1,300	1954	2,400/4,160	60	80	1,500	1,200	1,200	42	
6	1,200	120	75		1959	2,300	60	80	94	75		43	
"	"	120	75		"	"	"	"	94	75		44	
"	"	75	50	200	1961	"	"	"	63	50	200	45	
8	360	1,165	800		1950	2,300	60	80	1,000	800		46	
6	400	935	600		1948	"	"	"	750	600		47	
16	327	3,700	2,500	3,900	1955	2,400/4,160	"	"	3,125	2,500	3,900	48	
6	1,200	220	150	150	1960	2,400	60	80	188	150	150	49	
6	1,200	188	100		1961	2,400	60	80	125	100		50	
12	"	482	350	450	1959	1,385/2,400	"	"	435	350	450	51	

* See Gas Turbine Equipment Section.

* Operated by Northland Utilities at Fairview Plant.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 - Continued

No.	General plant data		Prime movers				
	Name of plant	Location	Year placed in service	Type of engine	Type of fuel used	Cycle	Super charged
	Alberta - Concluded						
	McMurray Light & Power Co. Ltd.:						
1	McMurray	McMurray	..	Diesel	O	4	No
2			..	..	..	2	..
3			..	..	..	4	Yes
4			1961	..	..	..	No
	Madison Natural Gas Co.:						
5	Main Plant	Turner Valley	1928	Spark	N, G	4	No
6			1929	..	..	..	..
7			1933	..	..	..	..
8							
	Northland Utilities Limited: ¹						
9	Athabasca	Athabasca	1953	Spark	N, G	4	No
10			1955	..	..	..	..
11			1961	..	..	..	Yes
12	Fairview	Fairview	1954	Spark	N, G	4	Yes
13			1957	..	..	..	..
14			1959	..	..	..	..
15			1960	..	..	..	..
16	Fort Vermilion	Fort Vermilion	1957	Diesel	O	4	No
17			..	..	..	..	..
18			1958	..	..	..	..
19			1959	..	..	..	..
20	High Level	High Level	1960	Diesel	O	4	No
21			1961	..	..	..	..
22	Jasper	Jasper	1957	Spark	N, G	4	Yes
23			1953	Diesel	O	2	No
24			1945	..	..	..	..
25			1943	..	..	..	..
26			1951	..	..	..	..
27	Lac la Biche	Lac la Biche	1959	Diesel	N, G	4	Yes
28			..	Spark	..	..	No
29			1961	Diesel	..	..	Yes
30	Microwave Sites	Paddle Prairie	1961	Diesel	O	4	Yes
31		Steen River	..	..	..	..	..
32		Indian Cabins	..	..	..	..	..
33		Enterprise	..	..	..	..	..
34		Battle River	..	..	..	..	..
35		Boyer River	..	..	..	..	No
36		Wah Mountain	..	..	..	..	..
37		Meander River	..	..	..	..	..
38		Grumbler Rapids	..	..	..	..	..
39	Pocahontas	Pocahontas	1961	Spark	N, G	4	No
40			..	..	..	..	..
41			..	..	..	..	..
42	Wabisca	Wabisca	1958	Diesel	O	4	No
43	(see also N.W.T.)		..	..	..	..	..
44			1960	..	..	..	..
	North Western Pulp & Power Ltd.: ²						
45	Hinton	Hinton	1956	Diesel	O	4	No
46			..	..	D	..	..
	Swanson Lumber Co.:						
47	Chisholm Division	Chisholm	1952	Diesel	O	4	No
	Western Chemicals Ltd.: ^{2,3}						
48	Duvernay	Duvernay	1953	Spark	N, G	4	No
49			..	..	..	..	..
50			..	..	..	..	..
51			1954	..	..	..	..
52			..	..	..	..	..
53			..	..	..	..	..
54	Total name plate rating for plants not listed above .....	...	...	...	...	...	...
55	Total name plate rating in province of Alberta .....	...	...	...	...	...	...

¹ See Hydro-Electric Equipment Section.² See Steam Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 - Continued

Prime movers					Main generators								No.
No. of cylinders	r.p.m.	Name plate rating			Year placed in service	Name plate rating							
		h.p.	kw.	Total plant kw.		Voltage	Freq.	Power factor	kva.	kw.	Total plant kw.		
							(cycles)	(per cent)					
6	1,200	165	100		..	2,300	60	80	125	100		1	
3	300	225	150		..	..	..	..	185	150		2
8	1,200	300	225		..	..	..	..	438	225		3
6	..	147	100	575	1961	..	..	..	125	100	575	4
3	277	185	125		1928	480	60	80	156	125		5	
..	..	185	125		..	..	..	..	156	125		6
..	..	185	125		1929	..	..	..	156	125		7
..	..	185	125	600	1933	..	..	..	156	125	500	8
7	360	525	350		1953	2,400/4,160	60	80	375	300		9	
6	400	450	300		1955	2,400	..	..	375	300		10
8	514	1,750	1,200	1,850	1961	2,400/4,160	..	..	1,500	1,200	1,800	11
8	327	1,750	1,200		1954	2,400/4,160	60	80	1,500	1,200		12	
16	..	4,300	3,000		1957	..	..	..	3,750	3,000		13
..	..	4,300	3,000		1959	..	..	..	3,750	3,000		14
..	..	4,300	3,000	10,200	1960	..	..	..	3,750	3,000	10,200	15
4	1,200	110	50		1957	2,300	60	80	63	50		16	
..	900	90	40		..	2,400	..	..	50	40		17
6	..	125	75		1958	..	..	..	94	75		18
..	..	125	75	240	1961	..	..	..	94	75	240	19
6	1,200	100	60		1960	240/408	60	80	75	60		20	
..	..	50	30	90	1961	..	..	..	38	30	90	21
8	514	1,720	1,200		1957	2,400/4,160	60	80	1,500	1,200		22	
6	300	690	450		1953	..	..	..	592	474		23
2	..	150	90		1945	2,400	..	..	120	96		24
3	257	180	110		1943	..	..	..	150	120		25
6	300	450	290	2,140	1941	..	..	..	375	300	2,190	26
8	514	700	500		1959	2,400	60	80	625	500		27	
6	450	330	312		..	..	..	..	312	250		28
8	600	750	500	1,312	1961	2,400/4,160	..	..	625	500	1,250	29
4	1,800	53	32		1961	120/208	60	80	40	32		30	
..	..	53	32		..	..	..	..	40	32		31
..	..	53	32		..	..	..	..	40	32		32
..	..	53	32		..	..	..	..	40	32		33
3	1,200	17	10		..	..	..	..	13	10		34
..	..	17	10		..	..	..	..	13	10		35
..	..	17	10		..	..	..	..	13	10		36
..	..	17	10		..	..	..	..	13	10		37
2	..	17	10	178	..	..	..	..	13	10	178	38
8	900	150	90		1961	440	60	80	112	90		39	
..	..	150	90		..	..	..	..	94	75		40
6	1,200	89	75	255	..	..	..	..	94	75	240	41
4	1,200	92	50		1958	440	60	80	63	50		42	
6	900	125	75		..	..	..	..	94	75		43
..	..	125	75	200	1960	..	..	..	94	75	200	44
16	720	1,400	1,000		1956	2,400	60	80	1,375	1,000		45	
..	..	1,400	1,000	2,000	..	..	..	..	1,275	1,000	2,000	46
6	915	135	75	75	1952	2,300	60	80	75	60	60	47	
10	514	670	500		1953	75/125	DC	..	..	500		48
..	..	670	500		..	..	..	..	..	500		49
..	..	670	500		..	..	..	..	..	500		50
..	..	670	500		1954	..	..	..	..	500		51
..	..	670	500		..	..	..	..	..	500		52
..	..	670	500	3,000	..	..	..	..	..	500	3,000	53
...	...	...	...	2,427	...	...	...	...	3,005	...	2,381	54
...	...	...	...	32,499	...	...	...	...	36,648	...	32,052	55

* See Gas Turbine Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 — Continued

No.	General plant data		Prime movers				
	Name of plant	Location	Year placed in service	Type of engine	Type of fuel used	Cycle	Super charged
	British Columbia						
	Aluminum Co. of Canada Ltd. ¹						
1	Kitimat	Kitimat	1954	Diesel	DO	2	Yes
2			"	"	"	"	"
3			"	"	"	"	"
4			"	"	"	"	"
5			"	"	"	"	"
6			1959	"	"	"	"
7			"	"	"	"	"
8			"	"	"	"	"
	Anglo-British Columbia Packing Co. Ltd.:						
9	North Pacific Cannery	Skeena River	1947	Diesel	O	2	No
10			1951	"	"	"	"
11			1955	"	"	"	"
12			"	"	"	"	"
	British Columbia Electric Co. Ltd. ^{1,3}						
13	Boston Bar	Boston Bar	1951	Diesel	O	4	No
14			"	"	"	"	"
15			1957	"	"	"	"
16			1960	"	"	2	"
17	Lytton	Lytton	1951	Diesel	O	4	No
18			1954	"	"	"	"
19			1958	"	"	"	Yes
20			1959	"	"	"	"
21	Spences Bridge	Spences Br.	1956	Diesel	O	4	No
22			1959	"	"	"	"
23			1960	"	"	"	"
	British Columbia Packers Ltd. ¹						
24	Kildonan Cold Storage	Kildonan	1952	Diesel	O	2	No
25			1941	"	"	"	"
26	Namu Cannery	Namu	1925	Diesel	O	2	No
27			1932	"	"	"	"
28			"	"	"	4	Yes
29			"	"	"	"	No
30			1955	"	"	2	"
31	Sunnyside	Skeena River	1952	Diesel	O	4	No
32			"	"	"	"	"
33			1954	"	"	"	"
34			1946	"	"	"	"
35	Wadhams	Rivers Inlet	1956	Diesel	O	"	"
36			1955	"	"	2	"
	British Columbia Power Commission: ^{1,3}						
37	Alert Bay	Alert Bay	1950	Diesel	DO	4	No
38			1947	"	"	"	"
39			"	"	"	"	"
40			1951	"	"	"	"
41			1959	"	"	"	"
42	Bella Coola	Bella Coola	1955	Diesel	DO	4	No
43			"	"	"	"	"
44			1956	"	"	"	"
45			1957	"	"	"	"
46			1956	"	"	"	Yes
47	Blue River	Blue River	1960	Diesel	DO	4	No
48			"	"	"	"	"
49	Burns Lake	Burns Lake	1954	Diesel	DO	2	Yes
50			"	"	"	"	"
51			"	"	"	"	"
52			1953	"	"	"	"
53			"	"	"	"	"
54			1960	"	"	"	"
55	Chetwynd	Chetwynd	1958	Gas Diesel	D, NG, DO	4	Yes
56			1959	"	"	"	"
57	Dawson Creek	Dawson Crk.	1953	Gas Diesel	D, NG, O	4	Yes
58			1955	Spark Gas	NG	"	"
59			1957	Alternatives	D, NG, DO	"	"
60			"	(1) Spark Gas	"	"	"
61			"	(2) Gas Diesel	"	"	"
62			1959	Spark Gas	NG	"	"
63			1960	"	"	"	"

¹ See Hydro-Electric Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 - Continued

Prime movers					Main generators							No.
No. of cylinders	r.p.m.	Name plate rating			Year placed in service	Name plate rating						
		h.p.	kw.	Total plant kw.		Voltage	Freq.	Power factor	kva.	kw.	Total plant kw.	
							(cycles)	(per cent)				
16	720	1,440	1,074*		1954	2,300/4,000	60	80	1,250	1,000		
"	"	1,440	1,074*		"	"	"	"	1,250	1,000		2
12	"	1,040	776*		"	"	"	"	1,250	1,000		3
"	"	1,040	776*		"	"	"	"	1,250	1,000		4
16	"	1,440	1,074*		"	"	"	"	1,250	1,000		5
"	"	1,440	1,074*		1959	2,400/4,160	"	"	1,250	1,000		6
"	"	1,440	1,074*		"	"	"	"	1,250	1,000		7
"	"	1,440	1,074*	7,996	"	"	"	"	1,250	1,000	8,000	8
4	1,350	90	50		1961	220	60	80	63	50		9
6	1,200	165	60		1951	"	"	"	75	60		10
12	1,600	330	200		1955	440	"	"	250	200		11
6	1,200	165	60	370	"	"	"	"	75	60	370	12
8	720	250	150		1951	460	60	80	188	150		13
"	"	250	150		"	"	"	"	188	150		14
12	1,200	484	350		1957	"	"	"	438	350		15
"	720	900	650	1,300	1960	2,200	"	93	700	650	1,300	16
8	720	250	150		1951	460	60	80	188	150		17
"	600	160	100		1954	2,300	"	"	125	100		18
12	1,200	484	350		1958	2,400	"	"	438	350		19
"	"	400	279	879	1959	460	"	"	350	279	879	20
8	600	160	100		1956	2,300	60	80	125	100		21
"	"	160	100		1959	"	"	"	125	100		22
6	900	112	75	275	1960	460	"	"	94	75	275	23
2	300	140	60		"	550	60	80	80	60		24
1	257	50	32	92	"	460	"	"	40	32	92	25
4	300	300	200		"	480	60	80	250	200		26
"	"	300	200		"	"	"	"	250	200		27
8	1,200	500	300		"	"	"	"	375	300		28
4	500	200	165		"	"	"	"	188	165		29
"	300	300	200	1,065	"	"	"	"	250	200	1,065	30
6	900	138	75		1952	220/440	60	80*	94*	75		31
"	"	138	75		"	"	"	"	94*	75		32
"	900	138	75		1954	"	"	"	94*	75		33
4	"	82	50	275	1956	"	"	"	63*	50	275	34
3	"	75	50		1956	120/208	60	80*	63*	50		35
2	"	43	20	70	1955	"	"	"	25*	20	70	36
10	514	500	250		1950	600	60	80	312	250		37
6	"	240	150		1947	"	"	"	187	150		38
"	"	240	150		"	"	"	"	187	150		39
10	"	500	250		1951	"	"	"	312	250		40
"	"	400	250	1,050	1959	"	"	"	312	250	1,050	41
8	900	180	100		1955	2,400	60	80	125	100		42
"	"	180	100		"	"	"	"	125	100		43
"	"	146	100		1956	"	"	"	120	100		44
12	1,200	425	300		1957	"	"	"	326	300		45
6	1,800	248	150	750	1956	"	"	"	187	150	750	46
10	600	600	250		1960	2,400	60	80	312	250		47
"	"	525	250	500	"	"	"	"	312	250	500	48
10	720	1,600	1,136		1954	2,400	60	80	1,420	1,136		49
"	514	400	250		1947	600	"	"	312	250		50
"	"	400	250		"	"	"	"	312	250		51
"	"	400	250		1953	2,400	"	"	312	250		52
"	600	500	250		"	"	"	"	312	250		53
8	450	1,140	800	2,936	1960	"	"	"	1,000	800	2,936	54
6	450	865	600		1958	2,400	60	80	750	600		55
"	"	865	600	1,200	1959	"	"	"	750	600	1,200	56
8	514	1,410	1,000		1952	2,400	60	80	1,250	1,000		57
"	"	1,410	1,000		1955	"	"	"	1,250	1,000		58
16	327	4,210	3,000		1957	6,900	"	"	3,750	3,000		59
"	"	4,210	3,000		"	"	"	"	3,750	3,000		60
"	"	4,210	3,000		"	"	"	"	3,750	3,000		61
"	"	4,210	3,000		1959	"	"	"	3,750	3,000		62
"	"	4,210	3,000	17,000	1960	"	"	"	3,750	3,000	17,000	63

* See Gas Turbine Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 — Continued

No.	General plant data		Prime movers				
	Name of plant	Location	Year placed in service	Type of engine	Type of fuel used	Cycle	Super charged
	British Columbia — Continued						
	British Columbia Power Commission ^{1,3} — Concluded:						
1	Fort Nelson	Fort Nelson	1960	Diesel	DO	4	Yes
2			"	Gas Diesel	D, NG, DO	"	"
3			"	"	"	"	"
4			"	Diesel	DO	"	No
5			"	"	"	"	"
6	Fort St. John	Fort St. John	1956	Diesel	DO	2	No
7	Hazelton	Hazelton	1955	Diesel	DO	4	No
8			"	"	"	"	"
9			"	"	"	"	"
10			1958	"	"	"	"
11	Houston	Houston	1956	Diesel	DO	4	No
12			"	"	"	"	"
13			"	"	"	"	"
14			1958	"	"	"	"
15	Kamloops	Kamloops	1953	Diesel	DO	4	Yes
16			"	"	"	"	"
17			"	Gas Diesel	DO, D, NG	"	"
18	McBride	McBride	1954	Diesel	O	4	No
19			1957	Gas Diesel	D O, LPG	"	Yes
20			1956	"	"	"	"
21	Mobile Units	Road Trailer #80	1956	Diesel	DO	4	Yes
22		#81	"	"	"	"	"
23		#82	"	"	"	"	"
24		#83	"	"	"	"	"
25		Rail Car #84	"	"	"	2	"
26	Port Hardy	Port Hardy	1959	Gas Diesel	DO	4	No
27			"	"	"	"	"
28			1960	"	"	"	Yes
29	Prince George	Prince George	1957	Alternatives	D, NG, DO	4	Yes
30			"	(1) Spark Gas	"	"	"
31			"	(2) Gas Diesel	"	"	"
32			"	(3) Diesel	"	"	"
33			1959	Spark	NG	"	"
34			"	"	"	"	"
35			1960	"	"	"	"
36	Queen Charlotte	Queen Charlotte	1956	Diesel	DO	4	No
37			1955	"	"	"	"
38			1958	"	"	"	Yes
39			1960	"	"	"	No
40	Quesnel	Quesnel	1957	Alternatives	D, NG, DO	4	Yes
41			"	(1) Spark Gas	"	"	"
42			"	(2) Gas Diesel	"	"	"
43			1958	(3) Diesel	"	"	"
44			1960	Spark	NG	"	"
45			1961	"	"	"	"
46	Smithers	Smithers	1951	Diesel	DO	4	Yes
47			1953	"	"	"	"
48			1951	"	"	"	"
49			1956	"	"	"	"
50			1959	"	"	"	"
51	Terrace	Terrace	1955	Diesel	DO	4	Yes
52			1954	"	"	"	"
53			1952	"	"	"	"
54			"	"	"	"	"
55			1958	"	"	"	"
56	Tofino	Tofino	1951	Diesel	DO	4	No
57			"	"	"	"	"
58			"	"	"	"	"
59			1952	"	"	"	"
60			1953	"	"	2	Yes
61			1957	"	"	4	"
62	Vanderhoof	Vanderhoof	1953	Diesel	DO	4	Yes
63			1955	"	"	"	"
64	Valemount	Valemount	1960	Diesel	DO	4	No
65			"	"	"	"	"
66			"	"	"	"	"
67			"	"	"	2	"
68	Williams Lake	Williams Lake	1954	Gas Diesel	D, NG	4	Yes
69			1949	"	"	"	"

¹ See Hydro-Electric Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 - Continued

Prime movers					Main generators							No.
No. of cylinders	r.p.m.	Name plate rating			Year placed in service	Name plate rating						
		h.p.	kw.	Total plant kw.		Voltage	Freq. (cycles)	Power factor (per cent)	kva.	kw.	Total plant kw.	
12	1,200	475	300		1960	2,400	60	80	326	300		1
6	450	865	600		"	2,300	"	"	750	600		2
8	514	1,690	1,200		"	2,400	"	"	1,500	1,200		3
6	1,200	200	150		"	440	"	"	187	150		4
"	"	150	100	2,350	"	2,400	"	"	125	100	2,350	5
6	300	300	200	200	1956	2,200	60	80	250	200	200 ^S	6
8	514	320	200		1955	600	60	80	250	200		7
"	"	320	200		"	"	"	"	250	200		8
10	600	480	250	850	1958	"	"	"	250	200		9
10	514	400	250		1956	600	60	80	312	250	850	10
"	"	400	250		"	"	"	"	312	250		11
8	"	360	200		"	"	"	"	312	250		12
10	600	400	250	950	1958	"	"	"	250	200		13
16	720	1,500	1,000		1953	2,400	60	80	312	250	950	14
"	"	1,500	1,000		"	"	"	"	1,250	1,000		15
"	327	3,700	2,500	4,500	"	"	"	"	1,250	1,000		16
6	514	240	150		1954	180	60	80	3,125	2,500	4,500	17
"	"	865	600		1957	2,400	"	"	187	150		18
"	"	860	600	1,350	1956	"	"	"	750	600		19
12	1,200	730	500		1956	625	60	80	750	600	1,350	20
"	"	730	500		"	"	"	"	625	500		21
"	"	730	500		"	"	"	"	625	500		22
"	"	730	500		"	"	"	"	625	500		23
16	720	1,440	1,000	3,000	"	2,400	"	"	625	500		24
6	300	425	300		1959	2,400	60	80	1,250	1,000	3,000	25
"	"	425	300		"	"	"	"	375	300		26
"	"	715	500	1,100	1960	"	"	"	375	300		27
16	327	4,210	3,000		1957	6,900	60	80	625*	500	1,100	28
"	"	4,210	3,000		"	"	"	"	3,750	3,000		29
"	"	4,210	3,000		"	"	"	"	3,750	3,000		30
"	"	4,210	3,000		"	"	"	"	3,750	3,000		31
"	"	4,210	3,000		"	"	"	"	3,750	3,000		32
"	"	4,210	3,000		1959	"	"	"	3,750	3,000		33
"	"	4,210	3,000		1960	"	"	"	3,750	3,000		34
"	450	4,190	3,000	21,000	"	"	"	"	3,750	3,000	21,000	35
8	1,200	240	150		1956	2,400	60	80	3,750	3,000		36
"	900	146	100		1955	"	"	"	188	150		37
6	1,800	180	150		1958	"	"	"	120	100		38
"	"	76	60	460	1960	120/240	"	"	188	150		39
16	327	4,210	3,000		1957	6,900	60	80	75	60	460	40
"	"	4,210	3,000		"	"	"	"	3,750	3,000		41
"	"	4,210	3,000		"	"	"	"	3,750	3,000		42
"	"	4,210	3,000		1958	"	"	"	3,750	3,000		43
"	"	4,210	3,000		1960	"	"	"	3,750	3,000		44
"	"	4,190	3,000	18,000	1961	"	"	"	3,750	3,000	18,000	45
6	600	810	560		1951	2,400	60	80	3,750	3,000		46
8	"	1,080	760		1953	"	"	"	700	560		47
6	"	810	560		1951	"	"	"	950	760		48
7	450	1,519	1,000		1956	"	"	"	700	560		49
8	514	1,410	1,000	3,880	1959	"	"	"	1,250	1,000	3,880	50
8	514	1,410	1,000		1955	2,400	60	80	1,250	1,000		51
"	"	1,410	1,000		1954	"	"	"	1,250	1,000		52
6	450	865	600		1952	"	"	"	750	600		53
"	"	865	600		"	"	"	"	750	600		54
8	514	1,410	1,000	4,200	1958	"	"	"	750	600	4,200	55
8	600	160	100		1951	2,300	60	80	1,250	1,000		56
"	"	160	100		"	"	"	"	125	100		57
"	"	160	100		"	"	"	"	125	100		58
"	"	160	100		1952	"	"	"	125	100		59
6	720	960	675		1953	2,400	"	"	843	675		60
"	450	865	600	1,675	1957	"	"	"	750	600	1,675	61
6	450	865	600		1953	2,400	60	80	750	600		62
8	514	1,410	1,000	1,600	1955	"	"	"	1,250	1,000	1,600 ^S	63
6	900	130	75		1960	2,400	60	80	94	75		64
4	1,200	44	20		"	"	"	"	25	20		65
1	265	66	35		"	"	"	"	44	35		66
5	300	350	250	380	"	"	"	60	375	250	380	67
8	514	1,410	1,000		1954	2,400	60	80	1,250	1,000		68
"	450	1,140	800	1,800	1949	"	"	"	1,000	800	1,800 ^S	69

* See Gas Turbine Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 - Continued

No.	General plant data		Prime movers				
	Name of plant	Location	Year placed in service	Type of engine	Type of fuel used	Cycle	Super charged
British Columbia—Continued							
Burg & Johnson Ltd.:							
1	Haslam Lake.....	Westview	1955	Diesel	O	4	Yes
Canadian Forest Products Ltd.: ¹							
2	Englewood.....	Englewood	1946	Diesel	O	4	No
3			1952	"	"	"	"
4			1951	"	"	"	"
5			1953	"	"	"	"
6			1954	"	"	"	"
7			1946	"	"	"	"
8			1952	"	"	"	"
9			1948	"	"	"	"
10			1951	"	"	"	"
11			"	"	"	"	"
12			1946	"	"	"	"
13			"	"	"	"	"
14			1950	"	"	"	"
15			1955	"	"	"	"
16			"	"	"	"	"
17			1957	"	"	"	"
18			1956	"	"	"	"
19			"	"	"	"	"
Canadian Utilities Ltd.: ^{2,3}							
20	Hudson Hope.....	Hudson Hope	1959	Diesel	O	4	No
21	(See Alberta also)		1961	"	"	"	"
22			"	"	"	"	"
Cariboo Gold Quartz Mining Co. Ltd.:							
23	Wells.....	Wells	1936	Diesel	O	4	No
24			"	"	"	"	"
25			"	"	"	"	"
26			1937	"	"	"	"
27			1940	"	"	"	"
28			1947	"	"	"	"
29			"	"	"	"	"
30			1954	"	"	"	"
31			1955	"	"	"	"
Consolidated Mining and Smelting Company of Canada Ltd.: ^{1,2}							
32	Bluebell Mine.....	Riondel	"	Diesel	O	2	No
33			"	"	"	"	"
34			"	"	"	"	"
35			"	"	"	4	"
36			"	"	"	"	"
Eagle Lake Sawmills Ltd.: ²							
37	Giscome.....	Giscome	1956	Diesel	O	2	No
Jorgen Botnen:							
38	Edson.....	Edson	1958	Diesel	DO	4	No
C Martin Utilities Ltd.:							
39	Masset.....	Masset	1954	Diesel	O	4	No
40			1958	"	"	"	"
41			1960	"	"	"	"
Northern British Columbia Power Co. Ltd.: ¹							
42	Dry Dock.....	Prince Rupert	1950	Diesel	O	4	Yes
43			1951	"	"	"	"
44			"	"	"	"	"
45			1954	"	"	"	"
46			1959	"	"	"	"
47	Stewart.....	Stewart	1954	Diesel	O	4	No
Northern Canada Power Comm.:							
48	Field Power Plant.....	Field	1959	Diesel	O	4	No
49	(See also N.W.T.)		"	"	"	"	"
50			1960	"	"	"	"

¹ See Hydro-Electric Equipment Section.² See Steam Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 - Continued

Prime movers					Main generators							No.
No. of cylinders	r.p.m.	Name plate rating			Year placed in service	Name plate rating						
		h.p.	kw.	Total plant kw.		Voltage	Freq.	Power factor	kva.	kw.	Total plant kw.	
							(cycles)	(per cent)				
12	1,200	550	296*	410	1955	480	60	80	370	296	296	
6	1,200	45	30		1946	110/220	60	80	38*	30		2
4	"	56	25		1952	" "	"	"	33*	25		3
"	"	56	25		1951	" "	"	"	33*	25		4
"	"	56	25		1953	" "	"	"	33*	25		5
"	"	56	25		1954	" "	"	"	33*	25		6
"	"	56	25		1946	" "	"	"	25*	20		7
6	"	102	50		1952	" "	"	"	62*	50		8
"	"	176	75		1948	" "	"	"	94*	75		9
"	"	102	50		1951	" "	"	"	62*	50		10
4	"	56	25		"	" "	"	"	33*	25		11
"	"	56	25		1946	" "	"	"	33*	25		12
"	"	56	25		"	" "	"	"	33*	25		13
"	"	56	25		1950	" "	"	"	33*	25		14
"	"	56	25		1955	" "	"	"	33*	25		15
"	"	56	25		"	" "	"	"	33*	25		16
2	"	9	5		1957	115/230	"	"	6	5		17
4	"	75	50		1956	125/220	"	"	62	50		18
6	"	45	30	560	"	110/220	"	"	38	30	560	19
4	1,800	51	30*		1959	120/208	60	80	38	30		20
2	"	22	10		1961	" "	"	"	13	10		21
6	1,200	67	30	70	"	" "	"	"	38	30	70	22
8	400	600	300		1936	460	60	80	438	350		23
7	"	525	267		"	" "	"	"	375	300		24
6	"	450	210		"	" "	"	"	312	250		25
7	"	525	267		1937	" "	"	"	375	300		26
6	600	180	110		1940	" "	"	"	156	125		27
8	720	250	150		1947	" "	"	"	187	150		28
"	"	250	150*		"	" "	"	"	"	"		29
6	450	330	200		1954	480	"	"	312	250		30
4	"	220	140	1,794	1955	"	"	"	188	150	1,875	31
6	300	450	300*		"	600	60	80	375	300		32
"	"	450	300*		"	" "	"	"	375	300		33
"	1,800	300	150*		"	550/600	"	"	188	150		34
"	600	120	60*		"	600	"	"	75	60*		35
"	"	120	44*	854	"	550	"	"	55*	44*	854	36
6	277	400	300	300	1958	480	60	80	375	300	300	37
4	1,700	48	20	20	1958	110/220	60	80*	25*	20	20	38
8	900	135	100		1954	220	60	80	120	100		39
6	1,200	147	125		1958	2,300	"	"	150	120		40
"	"	147	125	350	1960	" "	"	"	150	125	345	41
8	360	1,267	945*		1950	4,160	60	80	888	710		42
"	"	1,267	945*		1951	" "	"	"	888	710		43
"	"	1,267	945*		"	" "	"	"	888	710		44
12	327	2,780	2,074*		1954	" "	"	"	2,500	2,000		45
"	400	2,880	2,148*	7,057	1959	" "	"	"	2,542	2,034	6,164	46
6	1,200	185	138*	138	1954	4,160	60	80	156	125	125	47
5	600	227	156		1959	2,400	60	80	195	156		48
"	"	227	156		"	" "	"	"	195	156		49
3	"	154	100	412	1960	" "	"	"	125	100	412	50

* See Gas Turbine Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 - Continued

No.	General plant data		Prime movers				
	Name of plant	Location	Year placed in service	Type of engine	Type of fuel used	Cycle	Super charged
	British Columbia--Concluded						
	Revelstoke, Corporation of The City of: ¹						
1	4th Street West	Revelstoke	1926	Diesel	O	4	No
2			1954	"	"	"	Yes
3			1949	"	"	"	"
4			"	"	"	"	"
	Zeballos Utilities:						
5	Zeballos	Zeballos	1958	Diesel	DO	4	No
6			1961	"	"	"	Yes
7	Total name plate rating of companies not listed above..	...	...	...	...	...	...
8	Total name plate rating in province of British Columbia .....	...	...	...	...	...	...
	Yukon						
	Dawson Electric Light and Power Co. Ltd.:						
9	Dawson	Dawson City	1935	Diesel	O	2	No
10							
	United Keno Hill Mines Ltd.:						
11	Elsa	Elsa	1948	Diesel	O	4	No
12			1951	"	"	"	Yes
13			"	"	"	"	No
	Yukon Electrical Co. Ltd.:						
14	Carcross	Carcross	1960	Diesel	O	4	No
15			1961	"	"	"	Yes
16	Carmacks	Carmacks	1960	Diesel	O	4	No
17			"	"	"	"	"
18	Haines Junction	Haines Jct.	1960	Diesel	O	4	Yes
19			1958	"	"	"	No
20			"	"	"	"	"
21			"	"	"	"	"
22			1960	"	"	"	"
23	Watson Lake	Watson L.	1959	Diesel	O	4	No
24			"	"	"	"	"
25			"	"	"	"	"
26			"	"	"	"	"
27			"	"	"	"	"
28			"	"	"	"	"
29			1960	"	"	"	Yes
30	Total name plate rating in Yukon .....	...	...	...	...	...	...
	Northwest Territories						
	Aklavik Power and Supply Co.:						
31	Aklavik	Aklavik	1954	Diesel	O	4	No
32			1958	"	"	2	Yes
	Edorado Mining & Refining Ltd.:						
33	Port Radium	Port Radium	1939	Diesel	O	4	No
34	(See also Saskatchewan)		"	"	"	"	"
35			1953	"	"	"	Yes
36			1951	"	"	"	"
37			"	"	"	"	"
38			1947	"	"	2	"
39			"	"	"	"	"
40			1936	"	"	4	No
41			"	"	"	"	"
	Imperial Oil Limited:						
42	Refinery	Norman Wells	1945	Diesel	O	4	No
43			"	"	"	"	"
44			"	"	"	"	"
45			"	"	"	"	"
46			1961	"	"	"	"

¹ See Hydro-Electric Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 - Continued

Prime movers					Main generators							No.
No. of cylinders	r.p.m.	Name plate rating			Year placed in service	Name plate rating						
		h.p.	kw.	Total plant kw.		Voltage	Freq.	Power factor	kva.	kw.	Total plant kw.	
					(cycles)		(per cent)					
6	225	600	400		1949 R	2,400/4,160	60	80	512	400		
16	720	1,440	1,000		1954	" "	"	"	1,250	1,000		2
10	514	400	300		1949	" "	"	"	375	300		3
"	"	400	300	2,000	"	" "	"	"	375	300	2,000	4
6	900	100	75		1958	440	60	80	93	75		5
4	1,800	100	75	150	1961	"	"	"	93	75	150	6
...	...	...	...	1,925	...	...	...	...	2,403	...	1,925	7
...	...	...	...	118,979	...	...	...	...	147,533	...	118,153	8
5	330	390	290*	290	1935	2,300	60	80	312	300 ^S		9
					1942	"	"	"	312	300	600	10
5	600	300	200		1948	480	60	80	225*	180		11
7	400	720	500		1951	"	"	"	625	500*		12
"	"	525	350	1,050	"	"	"	"	438	350*	1,030	13
6	1,200	170	100*		1960	2,400	60	80	125	100		14
4	1,800	135	60*	160	1961	"	"	"	69	60	160	15
4	1,200	..	..		1960	240/480	60	80	38	30		16
"	1,800	..	..	..	"	" "	"	"	50	40	70	17
6	1,200	290	216*		1960	480/2,400	60	80	250	200		18
"	600	..	..		1958	2,400	"	"	125*	100		19
"	"	..	..		"	"	"	"	125*	100		20
"	"	..	..		"	"	"	"	125*	100		21
"	1,200	170	127*	343	1960	"	"	"	125	100	600	22
6	900	134*	100		1959	480	60	80	125	100		23
"	"	134*	100		"	"	"	"	125	100		24
"	"	134*	100		"	"	"	"	125	100		25
"	"	134*	100		"	"	"	"	125	100		26
"	"	134*	100		"	"	"	"	125	100		27
12	1,200	500	300		"	2,400	"	"	375	300		28
"	"	469*	350	1,150	1960	"	"	"	438	350	1,150	29
...	...	...	...	2,993	...	...	...	...	4,382	...	3,610	30
5	514	300	250		1954	2,400	60	80*	312*	250		31
12	1,600	330	200	450	1958	460	"	"	250*	200	450	32
6	600	200	149*		1939	575	60	80	187	150		33
"	"	200	149*		"	"	"	"	187	150		34
8	450	1,250	933*		1953	2,300	"	"	1,080	864		35
6	"	940	701*		1951	"	"	"	812	650		36
"	"	940	701*		"	"	"	"	812	650		37
"	327	600	448*		1947	"	"	"	500	400		38
"	"	600	448*		"	"	"	"	500	400		39
5	490	250	187*		1936	575	"	"	219	175		40
6	"	300	224*	3,940	"	"	"	"	250	200	3,639	41
6	900	110	74		1945	220	60	80	92	74		42
"	"	110	74		"	"	"	"	92	74		43
"	"	110	74		"	"	"	"	92	74		44
"	"	110	74		"	"	"	"	92	74		45
"	"	110	75	371	1961	440	"	"	94	75	371	46

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 — Concluded

No.	General plant data		Prime movers				
	Name of plant	Location	Year placed in service	Type of engine	Type of fuel used	Cycle	Super charged
	Northwest Territories — Concluded						
	Northern Canada Power Commission: ^{1,2}						
1	Fort Resolution.....	Fort Resolution	1960	Diesel	O	4	No
2			"	"	"	"	"
3			"	"	"	"	"
4	Fort Simpson	Fort Simpson	1957	Diesel	O	4	No
5			"	"	"	"	"
6			1960	"	"	"	"
7			"	"	"	"	Yes
8	Fort Smith	Fort Smith	1955	Diesel	O	4	Yes
9			1957	"	"	"	"
10			1960	"	"	"	"
11	Frobisher Bay	Frobisher B.	1958	Diesel	O	4	Yes
12			"	"	"	"	"
13			"	"	"	"	"
14			"	"	"	"	"
15			1960	"	"	"	"
16			"	"	"	"	"
17	Inuvik Power Plant.....	Inuvik	1958	Diesel	O	4	Yes
18			"	"	"	"	"
19			"	"	"	"	No
20			1960	"	"	"	Yes
21	Yellowknife	Yellowknife	1960	Diesel	O	4	Yes
	(See B.C. also)						
	Northland Utilities Limited: ¹						
22	Hay River.....	Hay River	1951	Diesel	O	4	No
23	(See also Alberta)		"	"	"	"	"
24			1959	"	"	"	"
25			1958	"	"	"	"
26			1960	"	"	"	"
	Taurcanis Mines Limited:						
27	Matthews Lake	Matthews L.	1957	Diesel	O	4	No
28			"	"	"	"	"
29			"	"	"	"	"
30			1961	"	"	"	"
31	Total name plate rating of companies not listed above..	...	...	...	...	...	...
32	Total name plate rating in Northwest Territories .....	...	...	...	...	...	...
33	Total name plate rating of all internal combustion equipment in Canada .....	...	...	...	...	...	...

¹ See Hydro-Electric Equipment Section.

SECTION 3. Internal Combustion Engine Equipment as at December 31, 1961 - Concluded

Prime movers					Main generators							No.
No. of cylinders	r.p.m.	Name plate rating			Year placed in service	Name plate rating						
		h.p.	kw.	Total plant kw.		Voltage	Freq.	Power factor	kva.	kw.	Total plant kw.	
						(cycles)	(per cent)					
6	1,200	120	75		1960	2,400/4,160	60	80	94	75		1
3	600	156	100		"	" "	"	"	126	100		2
5	"	227	156	331	"	" "	"	"	195	156	331	3
6	1,200	120	75		1956	2,400/4,160	60	80	94	75		4
"	"	120	75		"	" "	"	"	94	75		5
3	600	154	100		1960	" "	"	"	125	100		6
6	"	405	300	550	"	" "	"	"	375	300	550	7
6	600	405	280		1955	2,400/4,160	60	80	350	280		8
8	720	866	600		1957	" "	"	"	750	600		9
6	400	1,414	1,000	1,880	1960	" "	"	"	1,250	1,000	1,880	10
8	600	528	250		"	2,400	60	80	312	250		11
"	"	528	250		"	" "	"	"	312	250		12
"	"	528	250		"	" "	"	"	312	250		13
"	"	528	250		"	" "	"	"	312	250		14
12	720	1,368	960		1960	" "	"	"	1,200	960		15
"	"	1,368	960	2,920	"	" "	"	"	1,200	960	2,920	16
6	600	542	375		1958	2,400/4,160	60	80	462	375		17
"	"	542	375		"	" "	"	"	462	375		18
8	900	240	150		"	" "	"	"	187	150		19
12	720	1,368	960	1,860	1960	" "	"	"	1,200	960	1,860	20
12	900	1,368	960	960	1960	2,400/4,160	60	80	1,200	960	960	21
6	900	125	75		1951	440	60	80	112	90		22
"	"	125	75		"	" "	"	"	94	75		23
"	"	125	90		1959	" "	"	"	94	75		24
"	514	450	275		1958	2,400/4,160	"	"	344	275		25
8	"	500	300	815	1960	550/4,160	"	"	375	300	815	26
..	..	..	..		1957	550	60	80	150	120		27
..	..	..	..		"	600	"	"	156	125		28
..	..	..	..		"	"	"	"	156	125		29
..	..	..	..	..	1961	550	"	75	190	150	520	30
...	...	...	...	1,400	...	...	...	...	1,761	...	1,400	31
...	...	...	...	15,477	...	...	...	...	19,615	...	15,696	32
...	...	...	...	380,815	...	...	...	...	468,362	...	378,509	33

² See Steam Equipment Section.

SECTION 4. Gas Turbine Equipment as at December 31, 1961

No.	General plant data		Main turbines						
	Name of plant	Location	Type of fuel used	Year placed in service	Cycle	Turbine inlet temp. °F.	Pressure ratio	No. of shafts	Shaft speeds r.p.m.
	Quebec								
	Quebec Hydro-Electric Commission: ^{1,2}								
1	Les Boules	L. Boules	DO	1960	Simple	104	..	1	6,900
2			"	"	"	"	"	"	"
3			"	"	"	"	"	"	"
4			"	"	"	"	"	"	"
5			"	"	"	"	"	"	"
6			"	"	"	"	"	"	"
7	Total name plate rating in province of Quebec .....	...	...	...	...	...	...	...	...
	Saskatchewan								
	Regina, City of: ³								
8	Regina	Regina	NG	1960	Simple	1,475	65:1	1	3,600
	Saskatchewan Power Corporation: ^{2,3}								
9	Kindersley	Kindersley	NG	1958	Simple	1,150	4.3:1.0	1	3,600
10			"	"	"	"	"	"	"
11	Total name plate rating in province of Saskatchewan ..	...	...	...	...	...	...	...	...
	Alberta								
	Canadian Utilities Ltd.: ^{2,3}								
12	Sturgeon	Valleyview	FG	1958	Simple	1,165	4.6:1.0	1	3,600
13			"	1961	"	"	4.7:1.0	"	"
	Department of Public Works:								
14	Edmonton	Edmonton	NG	1960	Reg.	1,450	4.8:1	2	{ 8,000 7,050
	Edmonton, City of: ³								
15	Edmonton	Edmonton	NG	1958	Simple	1,150	17.0:1.0	2	{ 3,000 4,500
16			"	1959	"	"	"	"	"
	Lethbridge, City of: ³								
17	Lethbridge	Lethbridge	NG, DO	1958	Simple	1,150	4.0:1.0	1	3,600
18			"	1961	"	"	"	"	"
	Western Chemicals Ltd.: ^{2,3}								
19	Duvernay	Duvernay	NG	1957	Simple	1,165	..	1	3,600
20	Total name plate rating in province of Alberta .....	...	...	...	...	...	...	...	...
	British Columbia								
	British Columbia Electric Company Ltd.: ^{1,2}								
21	Port Mann	P. Mann	CO.	1959	Simple	1,200	15:1	2	3,600
22			"	"	"	"	"	"	"
23			"	"	"	"	"	"	"
24			"	"	"	"	"	"	"
	British Columbia Power Commission: ^{1,2}								
25	Georgia	Chemainus	RO	1958	Simple	1,450	..	1	3,600
26			"	"	"	"	"	"	"
27			"	1959	Reg.	"	"	"	"
28			"	"	"	"	"	"	"
29	Total name plate rating in province of British Columbia .....	...	...	...	...	...	...	...	...
30	Total name plate rating of Gas Turbines Equipment in Canada .....	...	...	...	...	...	...	...	...

¹ See Hydro-Electric Equipment Section.² See Internal Combustion Equipment Section.

SECTION 4. Gas Turbine Equipment as at December 31, 1961

Main turbines				Main generators								No.
Capacity (kw.) at ambient		Total plant capacity (kw.) at ambient		Year placed in service	Name plate rating							
O°F.	80°F.	O°F.	80°F.		Voltage	Freq.	Power factor	kva.	kw.	Total plant kw.		
						(cycles)	(per cent)					
7,160	5,500			1960	4,160	60	100	6,000	6,000		1	
7,160	5,500			"	"	"	"	6,000	6,000		2	
7,160	5,500			"	"	"	"	6,000	6,000		3	
7,160	5,500			"	"	"	"	6,000	6,000		4	
7,160	5,500			"	"	"	"	6,000	6,000		5	
7,160	5,500	42,960	33,000	"	"	"	"	6,000	6,000	36,000	6	
...	...	42,960	33,000	...	...	...	...	36,000	...	36,000	7
25,500	18,000 ⁴	25,500	18,000 ⁴	1960	14,000	60	80	29,200	23,400	23,400	8	
10,000	6,200			1958	14,400	60	80	12,500	10,000		9	
10,000	6,200	20,000	12,400	"	"	"	"	12,500	10,000	20,000	10	
...	...	45,500	30,400	...	...	...	...	54,200	...	43,400	11
10,000	6,200			1958	14,400	60	80	12,500	10,000		12	
8,500	5,900	18,500	12,100	1954	4,160	"	"	10,650	8,500	18,500	13	
..	..	..	..	1960	4,160	60	80	2,750	2,200	2,200	14
30,000	22,500			1958	13,800	60	80	37,500	30,000		15	
30,000	22,500	60,000	45,000	1959	"	"	"	37,500	30,000	60,000	16	
10,700*	7,500*			1958	13,800	60	80	12,500	10,000		17	
10,700	7,500	21,400	15,000	1961	"	"	"	12,500	10,000	20,000	18	
9,000	6,200	9,000	6,200	1957	6,900	60	90	9,375	8,437	8,437	19	
...	...	108,900	78,300	...	...	...	...	135,275	...	109,137	20
28,600	21,000			1959	13,800	60	90	30,000	27,000		21	
28,600	21,000			"	"	"	"	30,000	27,000		22	
28,600	21,000			"	"	"	"	30,000	27,000		23	
28,600	21,000	114,400	84,000	"	"	"	"	30,000	27,000	108,000	24	
23,760	16,500			1957	13,800	60	85	25,600	21,760		25	
23,760	16,500			1958	"	"	"	25,600	21,760		26	
22,572	15,200			1959	"	"	"	25,600	21,760		27	
22,572	15,200	92,664	63,400	"	"	"	"	25,600	21,760	87,040	28	
...	...	207,064	147,400	...	...	...	...	222,400	...	195,040	29
...	...	404,424	289,100	...	...	...	...	447,875	...	383,577	30

³ See Steam Equipment Section.⁴ At ambient 70°F.

